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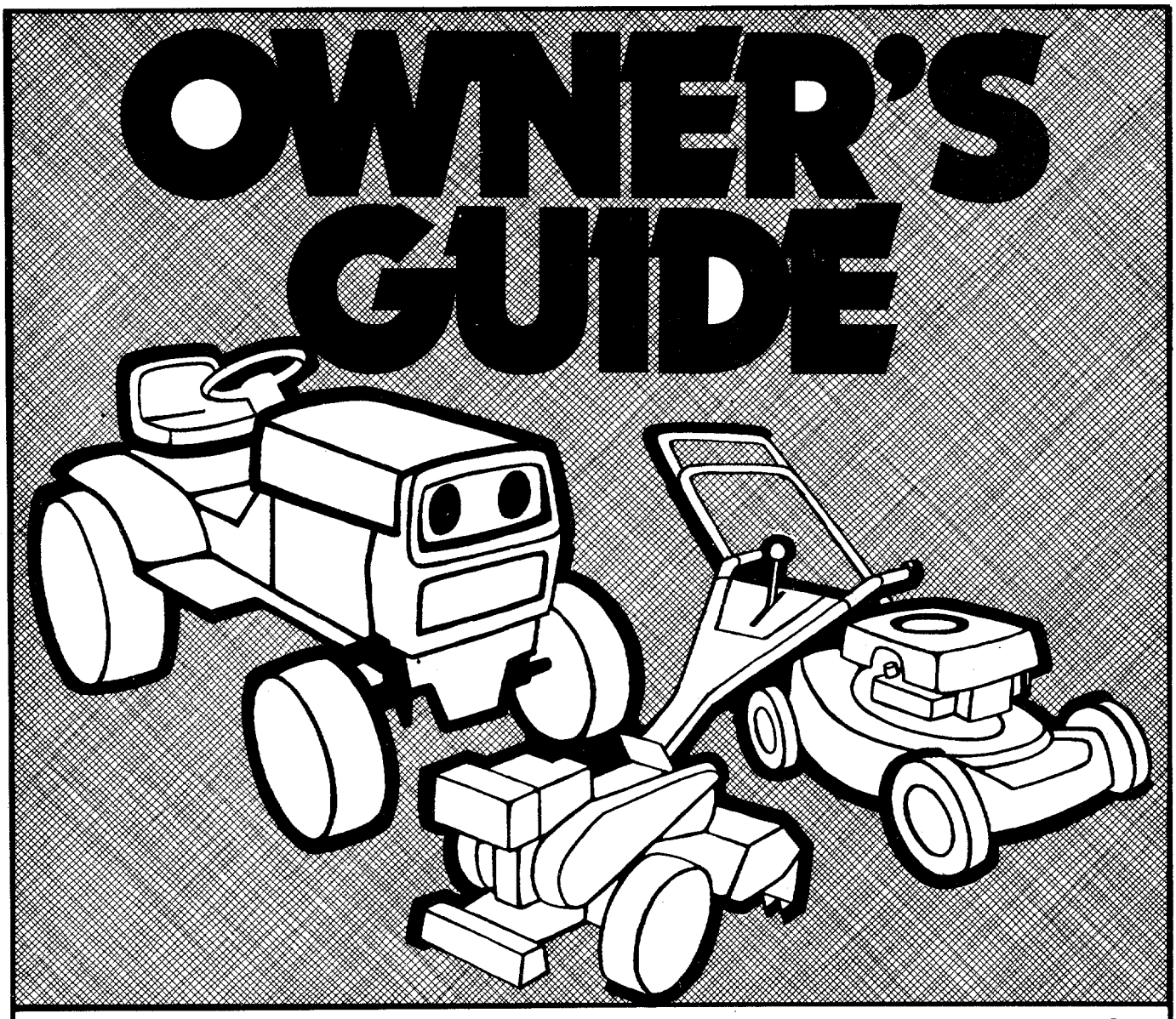
OWNER'S GUIDE



ASSEMBLY • OPERATION • MAINTENANCE • PARTS

11 H.P. LAWN TRACTOR

Important:

Read Safety Rules and Instructions Carefully

Thank you for purchasing an American built product.

Model Number 131-764A

PRINTED IN U.S.A.

FORM NO. 770-0867

INDEX

LIMITED WARRANTY

For one year from the date of original retail purchase, MTD PRODUCTS INC will either repair or replace, at its option, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. Transportation charges for any parts submitted for replacement under this warranty must be paid by the purchaser unless such return is requested by MTD PRODUCTS INC.

This warranty will not apply to any part which has become inoperative due to misuse, excessive use, accident, neglect, improper maintenance, alterations, or unless the unit has been operated and maintained in accordance with the instructions furnished. This warranty does not apply to the engine, motor, battery, battery charger or component parts thereof. Please refer to the applicable manufacturer's warranty on these items.

This warranty will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. If you do not know the dealer or distributor in your area, please write to the Customer Service Department of MTD.

The return of a complete unit will not be accepted by the factory unless prior written permission has been extended by MTD.

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

WARNING

TO PURCHASERS
OF INTERNAL COMBUSTION ENGINE EQUIPPED
MACHINERY OR DEVICES IN THE STATE OF CALIFORNIA

The equipment which you have just purchased does not have a spark arrester. If this equipment is used on any forest covered land, brush covered land, or grass covered unimproved land in the State of California, before using on such land, the California law requires that a spark arrester be provided. In addition, spark arrester is required by law to be in effective working order. The spark arrester must be attached to the exhaust system and comply with Section 4442 of the California Public Resources Code.

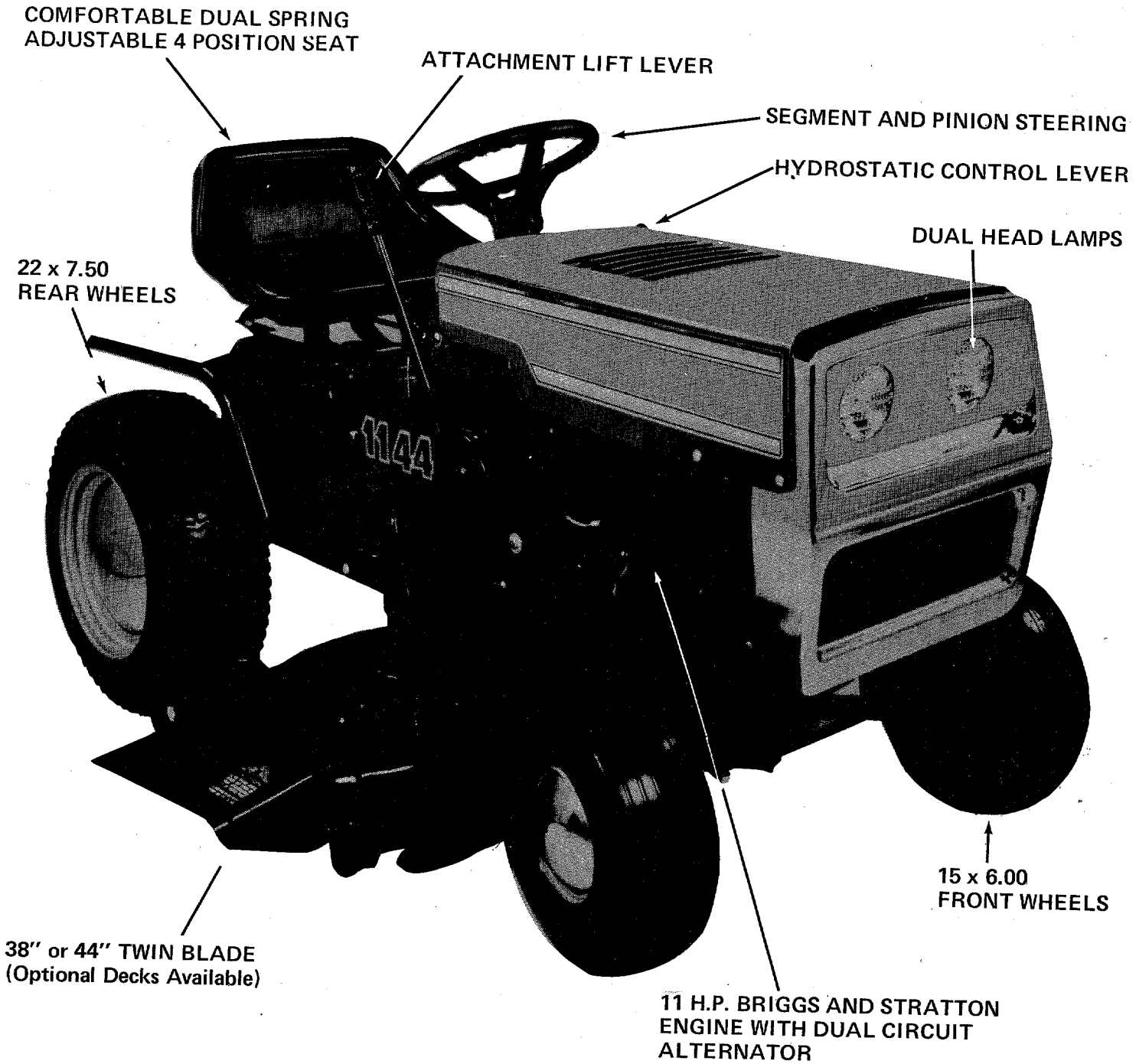
WARNING

To reduce the potential for any injury, comply with the following safety instructions. Failure to comply with the instructions may result in personal injury.

SAFE OPERATION PRACTICES FOR RIDING VEHICLES

1. It is suggested that this manual be read in its entirety before attempting to assemble or operate this unit. Keep this manual in a safe place for future reference and for ordering replacement parts.
2. This unit is a precision piece of power equipment, not a plaything. Therefore exercise extreme caution at all times.
3. Know the controls and how to stop quickly—READ THIS OWNER'S MANUAL.
4. Do not allow children to operate vehicle. Do not allow adults to operate it without proper instruction. Only persons well acquainted with these rules of safe operation should be allowed to use your mower.
5. Do not carry passengers.
6. Keep the area of operation clear of all persons, particularly small children and pets. Stop engine when they are in the vicinity of your mower. Although the area of operation should be completely cleared of foreign objects, a small object may have been overlooked and could be accidently thrown by the mower in any direction and cause injury.
7. Clear work area of objects which might be picked up and thrown by the mower in any direction and cause injury.
8. Stop the blade(s) when crossing gravel drives, walks or roads.
9. Disengage all attachment clutches and shift into neutral before attempting to start engine.
10. Disengage power to attachment(s) and stop engine before leaving operating position.
11. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times as the rotating blade(s) can cause injury.
12. Disengage power to attachment(s) and stop engine before making any repairs or adjustments. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
13. Before attempting to unclog the mower or discharge chute, stop the engine. The mower blade(s) may continue to rotate for a few seconds after the engine is shut off. Therefore, be sure the blade(s) have stopped completely. Disconnect the spark plug wire and keep the wire away from the plug to prevent accidental starting.
14. Disengage power to attachment(s) when transporting or not in use.
15. Take all possible precautions when leaving vehicle unattended such as disengaging power-take-off, lowering attachments, shifting into neutral, setting parking brake, stopping engine and removing key.
16. Do not stop or start suddenly when going uphill or downhill. Mow up and down face of steep slopes; never across the face.
17. Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.
18. Stay alert for holes in terrain and other hidden hazards.
19. Use care when pulling loads or using heavy equipment.
    A. Use only approved drawbar hitch points.
    B. Limit loads to those you can safely control.
    C. Do not turn sharply. Use care when backing.
    D. Use counterweight(s) or wheel weights when suggested in owner's manual.
20. Watch out for traffic when crossing or near roadways.
21. When using any attachments, never direct discharge of material toward bystanders nor allow anyone near vehicle while in operation.
22. Handle gasoline with care. It is highly flammable.
    A. Use approved gasoline container.
    B. Never remove cap or add gasoline to a running or hot engine or fill fuel tank indoors. Wipe up spilled gasoline.
    C. Open doors if engine is run in garage. Exhaust fumes are dangerous. Do not run engine indoors.
23. Keep the vehicle and attachments in good operating condition, and keep safety devices in place. Use guards as instructed in owner's manual.
24. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
25. Never store the equipment with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow engine to cool before storing in any enclosure.
26. To reduce fire hazard, keep engine free of grass, leaves or excessive grease.
27. The vehicle and attachments should be stopped and inspected for damage after striking a foreign object. The damage should be repaired before restarting and operating the equipment.
28. Do not change the engine governor settings or overspeed the engine.
29. When using the vehicle with mower, proceed as follows:
    (1) Mow only in daylight or in good artificial light.
    (2) Never make a cutting height adjustment while engine is running if operator must dismount to do so.
    (3) Shut the engine off and wait until the blade comes to a complete stop before removing the grass catcher.
    (4) Check blade mounting bolts for proper tightness at frequent intervals.
30. Check grass catcher bags frequently for wear or deterioration. For safety protection, replace only with new bag meeting original equipment specifications.
31. Look behind to make sure the area is clear before placing the transmission in reverse and continue looking behind while backing up.

KNOW YOUR TRACTOR



ASSEMBLY

NOTE

This unit is shipped WITHOUT GASOLINE or OIL. After assembly, see operating section of this manual for proper fuel and engine oil recommendations.

The lawn tractor is packed and shipped in one container and is fully assembled except for the steering wheel, seat and battery.

BATTERY INFORMATION

WARNING

A. Battery acid must be handled with great care as it will blister the skin and damage clothing. It is advisable to wear goggles, rubber gloves, and a protective apron when working with it.

B. If for any reason acid should be spattered in the eyes, wash it out immediately with clean cold water. Seek medical aid if discomfort continues.

C. If acid gets on clothes, dilute it with clean water first, then neutralize with dilute ammonia water or a water solution of baking soda.

D. Since battery acid is corrosive to metals, do not pour into any sink or drain. Rinse empty electrolyte containers and multilate before discarding.

DANGER

BATTERIES CONTAIN SULFURIC ACID AND MAY CONTAIN EXPLOSIVE GASES (when electrolyte has been added)

E. Keep sparks, flame, cigarettes away.

F. Hydrogen gas is generated during charging and and discharging.

G. Ventilate when charging or using in enclosed space.

H. When using a charger—to avoid sparks, NEVER connect or disconnect charger clips to battery while charger is turned on.

J. Always shield eyes, protect skin and clothing when working near batteries.

ACTIVATING THE BATTERY

NOTE

If your battery is activated (electrolyte in the battery) and installed in the tractor go directly to step 9.

1. Place the battery to be filled on a workbench. Never activate a battery in the unit.
2. Remove the fill caps from all cells.
3. Fill each cell carefully using 1.265 specific gravity electrolyte. Fill each cell to the top of the separators. Do not overfill.
4. Let the battery sit for 20 minutes for the chemical reaction to take place.
5. Charge the battery at a MAXIMUM RATE OF 5 AMPS. until the specific gravity reads 1.265. Use a hydrometer to check the specific gravity.

CAUTION

An excessive rate of charge will damage the battery.

6. Check the level of electrolyte. Adjust level to bottom of split ring if necessary with electrolyte.
7. Replace fill caps.
8. Once the battery has been activated never add anything except distilled water or a good grade of drinking water.
9. If your battery has been installed in your unit at the factory:
   A. Use a hydrometer to check the specific gravity. The specific gravity should be 1.265 at 80° F.
   B. If it is less, remove the fill caps and use a battery charger to bring the specific gravity up to 1.265. NEVER CHARGE AT MORE THAN 5 AMPS.
   C. Replace the fill caps.
   D. The positive cable has been attached to the positive terminal of the battery at the factory. You only have to attach the negative cable (grounded) to the negative (Neg. N or -) terminal of the battery with a hex head bolt, lock washer and nut.

INSTALLING THE BATTERY

NOTE

The positive battery terminal is marked Pos. (+). The negative battery terminal is marked Neg. (-).

1. Place the battery in the battery box with the terminals towards the rear of the tractor.
2. Secure the battery with the two hold down rods, battery hold down, lock washers and wing nuts. See figure 1.

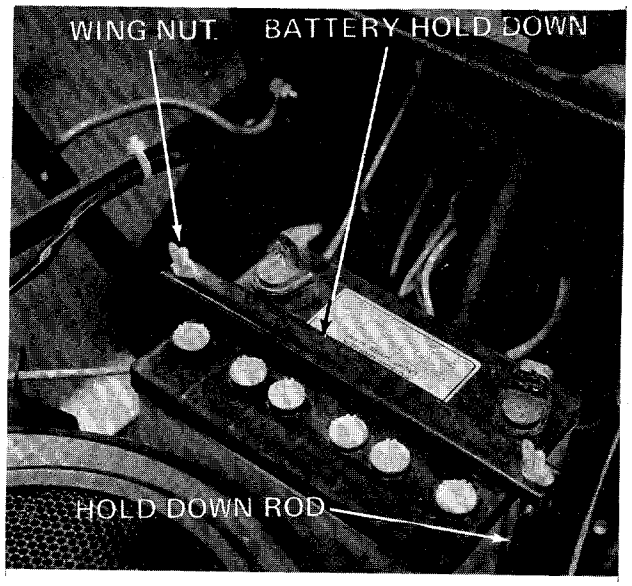


FIGURE 1.

3. Attach the positive cable (from the starter solenoid) and the small wire (from the circuit breaker) to the positive battery terminal (+) with a ¼-20 x ¾" long bolt, lock washer and hex nut.
4. Attach the negative cable (grounded) to the negative battery terminal (–) with the other ¼-20 x ¾" long bolt, lock washer and hex nut.

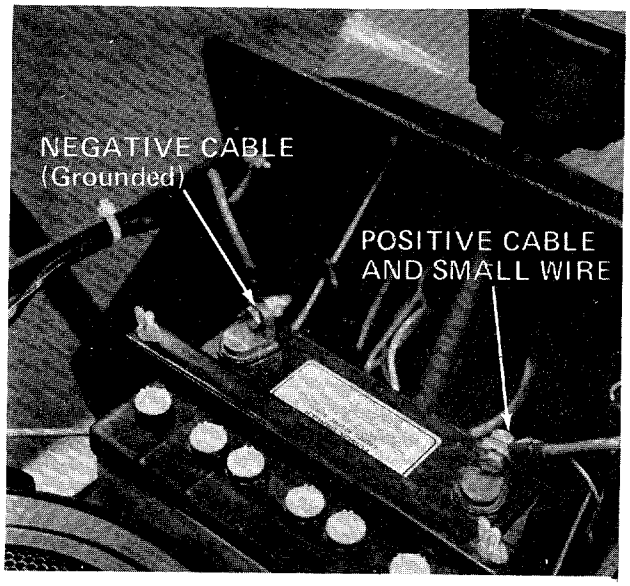


FIGURE 2.

NOTE

The vented battery allows any gases or liquid from the battery to be carried to the rear of the tractor and onto the ground.

Route the rubber drain tube down beside the tractor frame so it drains onto the ground.

SEAT ASSEMBLY

The seat can be adjusted to four positions. With the seat tipped forward, hook the front of the seat spring into the slots on the tractor frame. Allow the seat to pivot backwards until it rests on the rear of the springs. (See figure 3.)

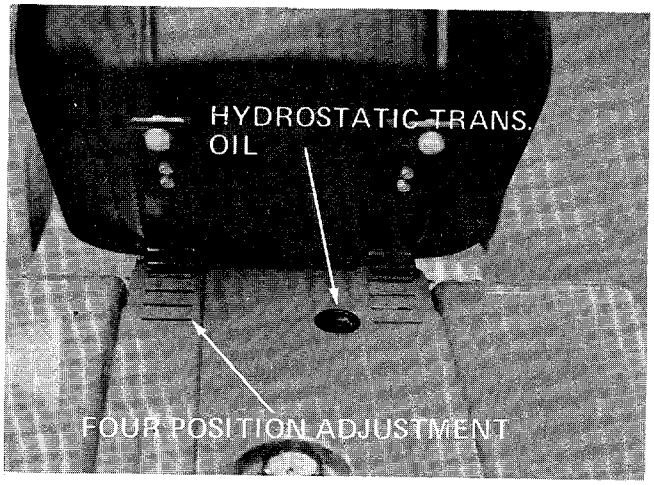


FIGURE 3.

STEERING WHEEL INSTALLATION

1. Place the steering wheel over the steering column extending through the dash. Line up the flats on the steering column with the flats in the steering wheel. (See figure 4.)

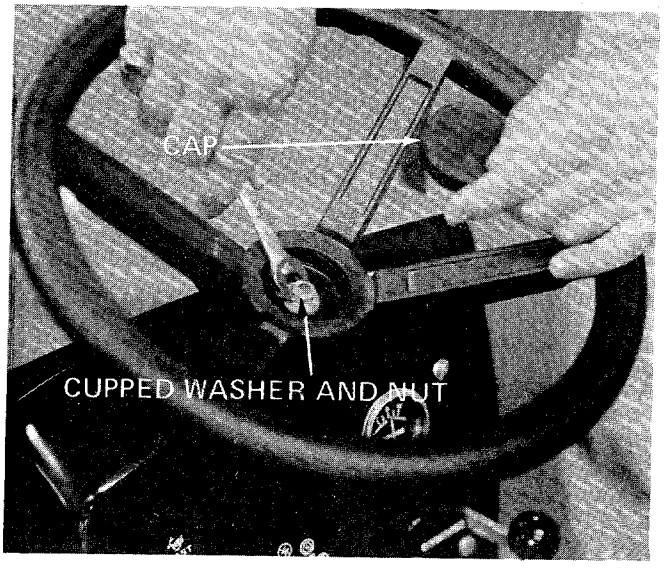


FIGURE 4.

2. Place the washer with the cupped side down over the steering column and secure with a hex nut 5/16".
3. Place the cap over the center of the steering wheel and seat it with your hand.

TIRE PRESSURE

Reduce the rear wheel tire pressure to 15 p.s.i. for operation. The tires have been over-inflated for shipping. Equal tire pressure should be maintained on all tires. Maximum tire pressure is 30 p.s.i.

HYDROSTATIC TRANSMISSION

See the maintenance section of this manual for correct lubrication and level for the oil in the hydrostatic transmission.

CONTROLS

Ignition Switch

The ignition switch is located in the center of the dashboard. Turn the key to the START position to start the engine. When the engine is running, leave the key in the ON position. To stop the engine, turn the key to the OFF position. See figure 5.

WARNING

Remove the key from the tractor when the tractor is not in use to prevent accidental starting.

Throttle Control

The throttle control is located on the left side of the dashboard and is used to regulate the engine speed. See figure 5. The engine should be operated from ¾ to full throttle (FAST) when operating any equipment that uses the tractor engine as a source of power such as the mowing deck, snow thrower or rotary tiller. See figure 5.

Light Switch

The head lamps are operated by pushing the light switch located on the dashboard. The head lamps will only operate when the engine is running. See figure 5.

Ammeter

The ammeter registers the rate of battery charge or discharge. The ammeter should register on the plus (+) side when the engine is running in the FAST position until the battery is completely charged.

With a fully charged battery or with the engine idling, the ammeter may not show a charge.

The maximum charging rate is 3 amps. The head lamps operate directly from the engine alternator and do not register on the ammeter. See figure 5.

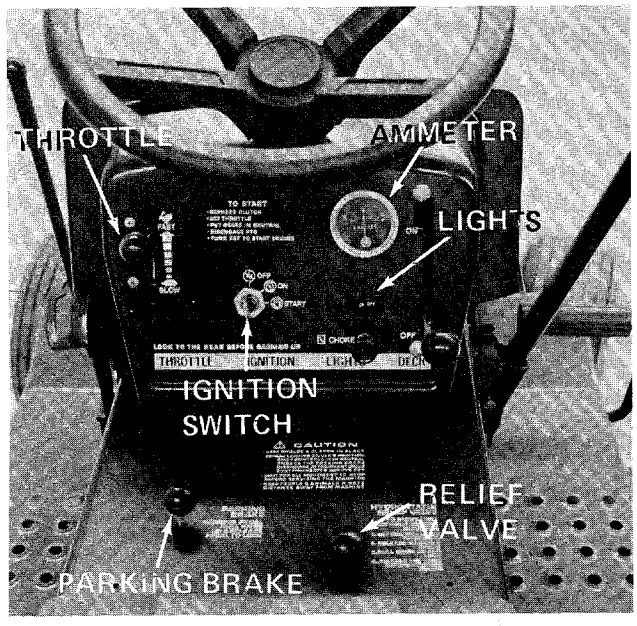


FIGURE 5.

Gasoline Tank

The gasoline tank is located on the engine. Raise the hood forward to fill the tank.

Seat Adjustment

The tractor seat is adjustable to four positions. To change positions, tip the seat all the way forward and lift it out of the slots on each side. See figure 6.

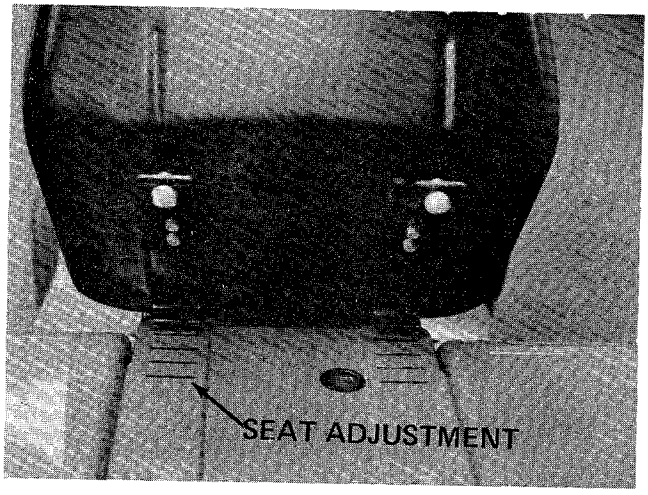


FIGURE 6.

Hydrostatic Control Lever

A single control lever connected to the hydrostatic transmission controls both the speed and direction of the tractor. Infinite speed control is achieved by moving the control lever forward or backward. The farther forward or backward you move the control lever the faster you will travel. Pulling the control lever into neutral (N) area will stop the tractor. To increase rear wheel torque (pulling power) move the control lever towards neutral (N) position. The lawn tractor responds similar to shifting to a lower gear with a gear type transmission. See figure 7.

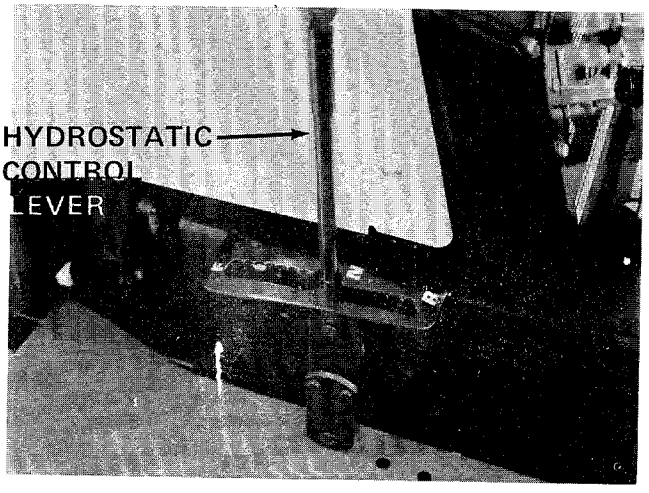


FIGURE 7.

Clutch-Brake Pedal

The clutch-brake pedal is located on the right side of the lawn tractor. Depressing the pedal disengages the engine from the hydrostatic transmission and applies the brake. You can release the clutch pedal and resume the same speed without moving the hydrostatic control lever. See figure 8..

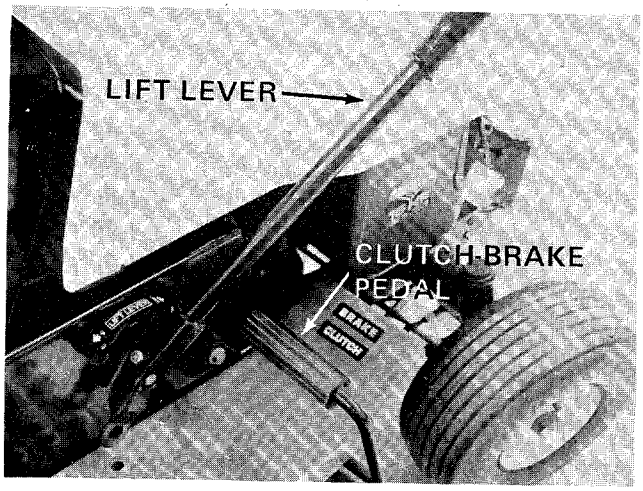


FIGURE 8.

NOTE

The clutch-brake pedal must be depressed to start the engine.

Parking Brake

To set the parking brake, depress the clutch-brake pedal and pull up the parking brake knob. It will stay in the raised position. To release the parking brake, depress and release the clutch-brake pedal. See figures 5 and 8.

Lift Lever

The five position lift lever is used to change the operating position of the attachments. To operate, pull the lever towards you. To release, move the lever to the right and then forward. See figure 8.

Power Take Off (PTO) Lever

The PTO lever is located on the right side of the dashboard. To engage the PTO, lift the lever slowly and lock it into the notch. See figure 9.

NOTE

The PTO lever must be in the disengaged position (down) to start the engine.

Relief Valve

To move the lawn tractor without the engine running, pull up the relief valve and lock it in the raised position. This allows the rear wheels to roll. See figure 5.

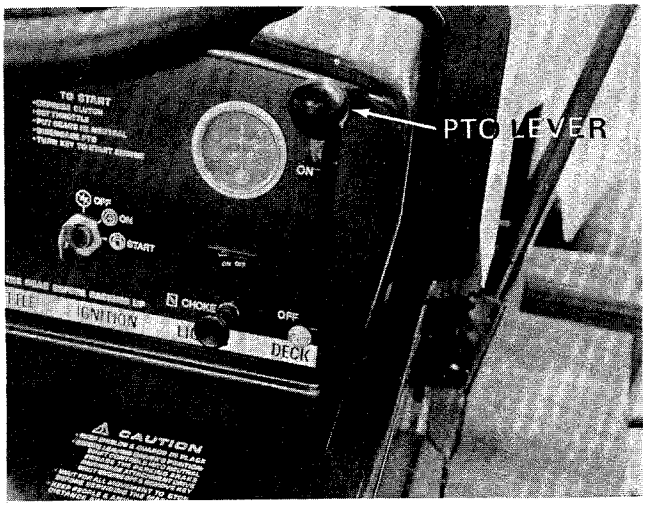


FIGURE 9.

OPERATION

CAUTION

1. Keep allshields in place.
2. Before leaving operator's position:
   a. Shift transmission to neutral
   b. Set parking brake
   c. Disengage attachment clutch
   d. Shut off engine
   e. Remove ignition key
3. Wait for all movement to stop before servicing machine.
4. Keep people and pets a safe distance away from machine.
5. Look to the rear before backing up.

CAUTION

DO NOT OPERATE MOWER UNLESS GUARD OR ENTIRE GRASS CATCHER IS IN ITS PROPER PLACE.

PREPARATION

NOTE

When packaged for shipment, the machine contains no oil or gasoline. Before starting the engine, oil must be added to the engine crankcase and gasoline to the tank. DO NOT mix oil with gasoline.

1. Put oil in engine crankcase. Use a high quality detergent oil classified "For Service SC or SD or MS". Nothing should be added to the recommended oil.

Summer. (Above 40° F). Use SAE 30. If not available use SAE 10W-30 or SAE 10W-40.
Winter. (Under 40° F). Use SAE 5W-20 or SAE 5W-30. If not available, use SAE 10W or SAE 10W-30. Below 0°F., use SAE 10W or SAE 10W-30 diluted 10% with kerosene.
Place the engine level. Fill the oil sump to the FULL mark on the dipstick. Pour slowly.
Crankcase Capacity—3-1/2 Pints.

2. Fill the gasoline tank with approximately 1.9 gallons of clean, fresh, leaded **REGULAR** grade automotive gasoline.
3. Check the oil level in the hydrostatic transmission. Refer to Maintenance Section on page 10.

OPERATING THE LAWN TRACTOR

NOTE

This unit is equipped with a safety interlock system for your protection. The purpose of the safety interlock system is to prevent the engine from cranking or starting unless the clutch-brake pedal is depressed and the P.T.O. lever is in the disengaged position.

WARNING

Do not operate the rider if the interlock system is malfunctioning because it is a safety device, designed for protection.

1. Place the PTO lever in the disengaged position (down).
2. Depress the clutch-brake pedal and set the parking brake.
3. Place the hydrostatic control lever in the "NETURAL" (N) position.

4. Set the throttle control in the "FAST" position.
5. Turn the ignition key to the right to the "START" position. After the engine starts release the key. It will return to the "ON" position.
6. Depress the clutch-brake pedal so the parking brake is released and then release the clutch-brake pedal.
7. Move the hydrostatic control lever forward. The father forward you move the hydrostatic control lever, the faster you will travel.
8. To stop the tractor, pull the hydrostatic control lever into "NEUTRAL" (N) or depress the clutch-brake pedal.
9. To shut off the engine, turn the ignition key to "OFF" position.

IMPORTANT

After striking a foreign object, stop the engine. Remove wire from spark plug, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower.

MAINTENANCE

TROUBLESHOOTING

Refer to the chart on page 18 for troubleshooting engine problems.

CRANKCASE OIL

To ensure maximum engine performance, perform the following periodic maintenance:

Check the oil level in the crankcase before each use of the machine and after every two hours of operation. Keep the oil level between ADD and FULL. See figure 10.

After the first two hours of operating a new engine, drain the oil (see figure 10) from the crankcase while engine is still hot and refill crankcase with new oil; thereafter change the oil after every 25 hours of operation. This prodecure ensures minimum wear of engine parts. To change the oil, proceed as follows:

Step 1. Remove oil filler plug.
Step 2. Drain the oil.
Step 3. Replace oil filler plug.
Step 4. Refill crankcase with oil. See page 9 for quantity and type of oil.

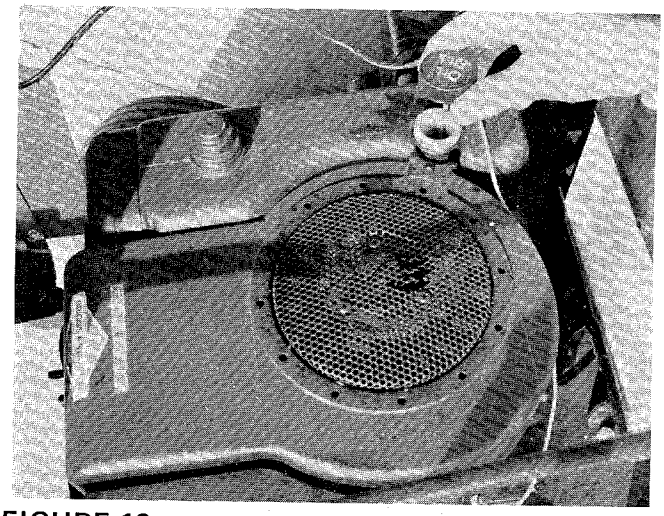


FIGURE 10.
HYDROSTATIC OIL LEVEL

The transmission has been filled at the factory and should not require changing for the life of the transmission. The following oils can be used.

Texaco 2209
General Motors Dexron B
Ford M2C-33F
Mobil Fluid 300
or a good quality SAE 20 High Detergent oil

CAUTION

Never use a multi-viscosity oil.

The transmission fluid level should be checked prior to initial use. The level should not be above the COLD mark which is about 1/4" from the bottom of the reservoir/expansion tank. See figure 11.

CAUTION

Overfilling reduces the expansion area in the reservoir/expansion tank and fluid will spill at operating temperatures.

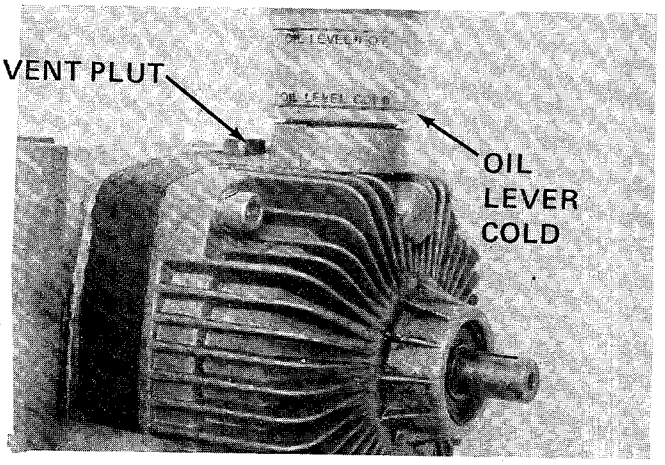


FIGURE 11.

To check or add fluid to the transmission:

1. Unscrew the parking brake and relief valve knobs. See figure 5.
2. Unscrew the two screws holding the access cover located in front of the seat.
3. Check the oil level in the reservoir/expansion tank. See figure 11.
4. If it is necessary to add oil, remove the plastic plug, unscrew the cap on the reservoir/expansion tank and add oil through the hole with a funnel. Do not overfill. See figure 12.
5. Reassemble parts.

If frequent additions are required, locate the leak and correct. Inadequate supply of fluid may result in permanent internal damage.

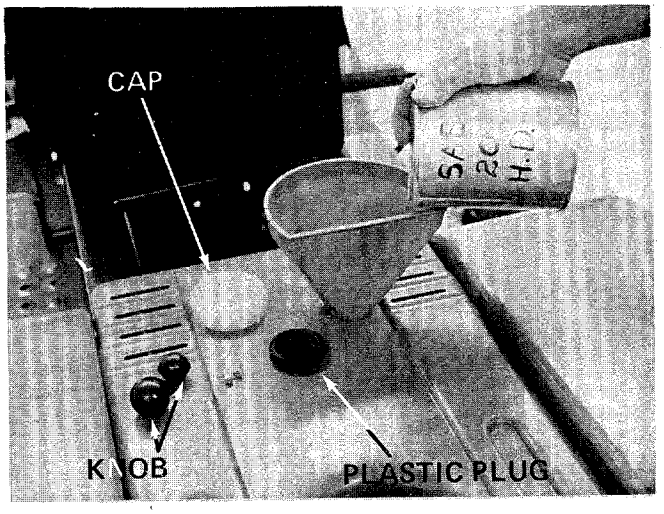


FIGURE 12.

If contaminate is observed on the reservoir/expansion tank screen, poor maintenance is indicated. Remove the reservoir/expansion tank, wash clean, dry and reinstall. If the screen is pierced the reservoir/expansion tank should be replaced.

CAUTION

The threads on the reservoir/expansion tank are left hand thread.

If the natural color of the transmission fluid has changed, black or milky, overheating and/or water contaminate is indicated. The fluid should be drained and replaced with new transmission fluid.

To drain the hydrostatic transmission, remove the hex plug on the bottom of the hydrostatic transmission.

To fill the hydrostatic transmission, remove the vent plug located next to reservoir/expansion tank to prevent an air lock. Replace vent plug.

Hydrostatic Transmission Cooling.

The hydrostatic transmission is cooled by the oil, fan and fins. Normal operating temperature is 180°F. If the hydrostatic transmission runs hot check to see if the fan is in operating condition, the oil level is correct and the fins are clean.

CAUTION

Do not use high pressure water spray or steam to clean the hydrostatic transmission.

TRANSAXLE LUBRICATION

Check the oil level four times a year. Lubricant should be at the point of overflowing. Use SAE E.P. 90 oil. Drain and refill every two years. Capacity 2-3/4 pints. See figure 13.

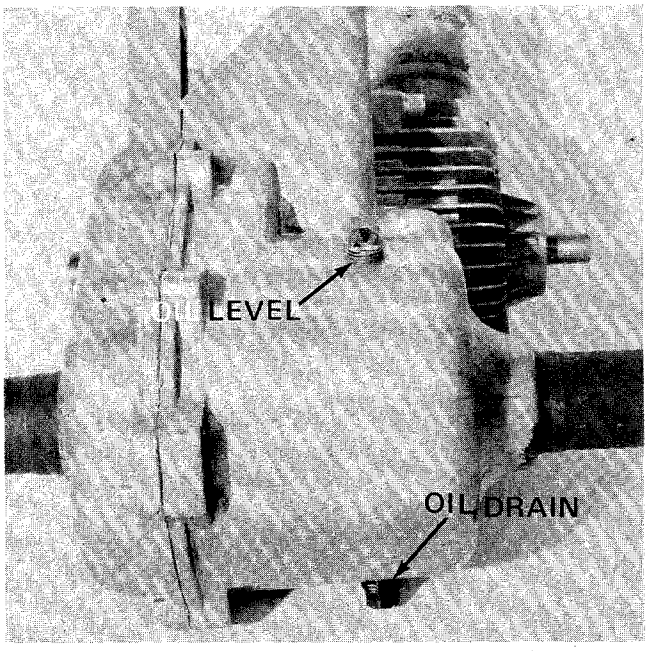


FIGURE 13.

HYDROSTATIC CONTROL ADJUSTMENT

The hydrostatic transmission control is in correct adjustment when the tractor does not move with the engine running, the clutch engaged and the hydrostatic control lever is in the neutral position.

If adjustment is necessary, follow these steps:

1. Raise both rear wheels off the ground by placing blocks under the rear frame.
2. Loosen both lock nuts on both ends of the connecting rod. See figure 14.
3. Place the hydrostatic control lever in the neutral position. See figure 7.
4. Start the tractor.
5. Release the clutch/brake pedal.

NOTE

Do NOT set the parking brake or the dump valve.

WARNING

Be careful of the cooling fan on the front of the hydrostatic transmission.

6. Turn the connecting rod back and forth until the rear wheels do not rotate.
7. Shut off the engine.
8. Tighten both lock nuts on the connecting rod.
9. Remove the blocks under the tractor frame and test the tractor operation.

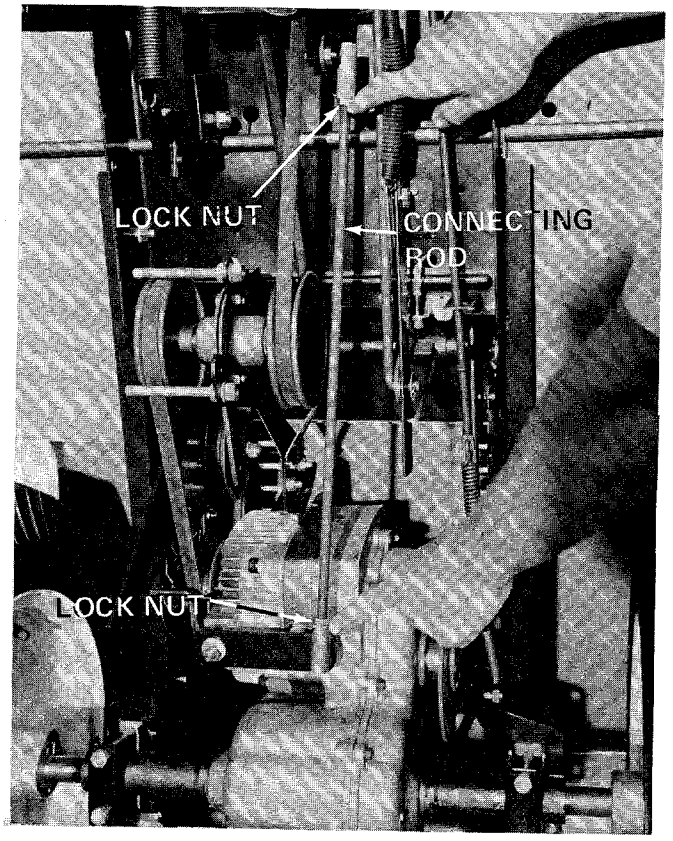


FIGURE 14.

STEERING GEARS

Wipe off the old grease and dirt. After every 25 hours of operation, place an automotive multi-purpose grease in the teeth of the segment and pinion gears. See figure 15.

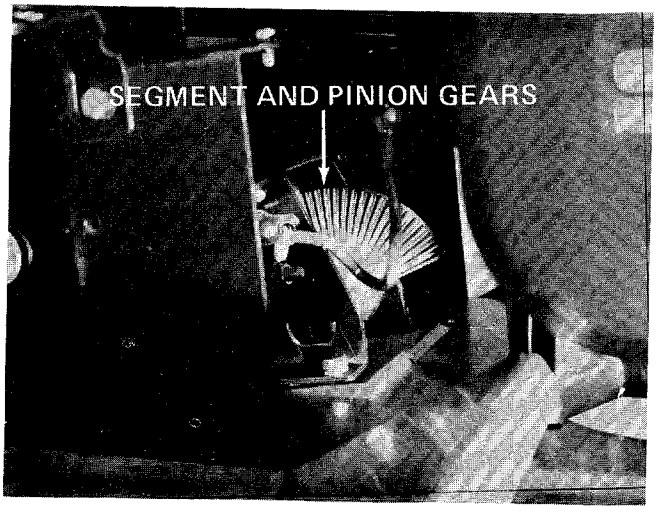


FIGURE 15.

LINKAGE—Once a season, lubricate all the pivot points on the clutch, brake and lift linkage with SAE 30 engine oil.

WHEEL BEARINGS—The front wheel bearings and king pin bearings have Oilon PV 80 bearings that require no lubrication.

BALL JOINTS—The ball joints and drag link ends are permanently lubricated.

MAINTENANCE OF BATTERY

1. Check electrolyte level periodically (at least every two weeks). Keep the level to the split rings. Use only distilled water or a good quality drinking water. Never add acid or any other chemicals to the battery after initial activation.
2. The battery should be checked with a hydrometer after every 25 hours of operation. If the specific gravity is less than 1.225, the battery should be recharged. Maximum charge rate 5 amps.
3. Coat the terminals and exposed wire with a thin coat of grease or petroleum jelly for longer service and protection against corrosion.
4. The battery should be kept clean. Any deposits of acid should be neutralized with soda and water. Be careful not to get this solution in the cells.
5. Avoid tipping the battery. Even a "sealed" battery will leak electrolyte when tipped.

STORAGE OF THE BATTERY

1. When storing battery for extended periods, disconnect battery cables. Removing battery from unit is recommended.
2. Keep the exterior of the battery clean, especially the top. A dirty battery will discharge itself.

3. Check the battery with a hydrometer. The battery must be stored with a full charge. A discharged battery will freeze.

Specific Gravity	Freezing Point
1.265	−71°F.
1.250	−62°F.
1.200	−16°F.
1.150	5°F.
1.100	16°F.

CAUTION

All batteries discharge during storage.

4. Recharge battery whenever the specific gravity is less than 1.225, before returning to service or every two months, whichever comes first.

COMMON CAUSES FOR BATTERY FAILURE

1. Overcharging
2. Undercharging
3. Lack of water
4. Loose hold downs and/or corroded connections
5. Excessive loads
6. Battery electrolyte substitutes
7. Freezing of electrolyte

NOTE

These failures do not constitute warranty.

BATTERY REMOVAL OR INSTALLATION

WARNING

When removing the battery follow this order of disassembly to prevent your wrench from shorting against the frame.

1. Remove the Negative cable.
2. Remove the Positive cable.

To install a battery:

1. Attach the Positive cable.
2. Attach the Negative cable.

JUMP STARTING

1. Attach the first jumper cable from the Positive terminal of the good battery to the Positive terminal of the dead battery.
2. Attach the second jumper cable from the Negative terminal of the good battery to the FRAME OF THE UNIT WITH THE DEAD BATTERY.

WARNING

Failure to use this starting procedure could cause sparking and the gases in either battery could explode.

INSTALLATION OF TIRE TO RIM

WARNING

The following procedure must be followed when removing or installing a tire to the rim.

1. Lubricate the tire beads and rim flanges.
2. Do not exceed 30 p.s.i. when seating beads.
3. Adjust to recommended pressure after beads are sealed.

REAR WHEEL TRACT ADJUSTMENT

The distance between the rear wheels can be changed from wide to narrow by removing the rear wheels one at a time and reversing them on the hub.

With the rear wheels in the narrow position, their outside is even with the outside of the front wheels.

With the rear wheels in the wide position, their inside is even with the inside of the front wheels.

WHEEL ALIGNMENT

The front wheels should toe-in approximately 1/8". Measure the distances A and B on the front wheels. See figure 16.

NOTE

Dimension B should be approximately 1/8 inch less than dimension A.

To adjust the toe-in, loosen the hex jam nut, remove the elastic locknut, lift the tie rod end out of the hole in the steering arm and screw the tie rod end in or out as necessary. See figure 16.

Reassemble the tie rod end after the correct alignment is made.

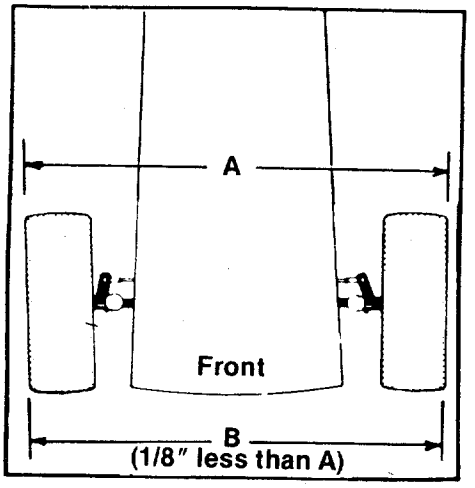


FIGURE 16.

DRAG LINK (See Figure 17)

If the drag link or ball joints are changed, the new assembly must be adjusted to the exact same length as the original. If adjusted incorrectly, it will allow the tractor to turn sharper one direction than the other.

To take off the drag link, remove the nuts and lock washers holding the ball joint to the steering gear and left front axle bracket.

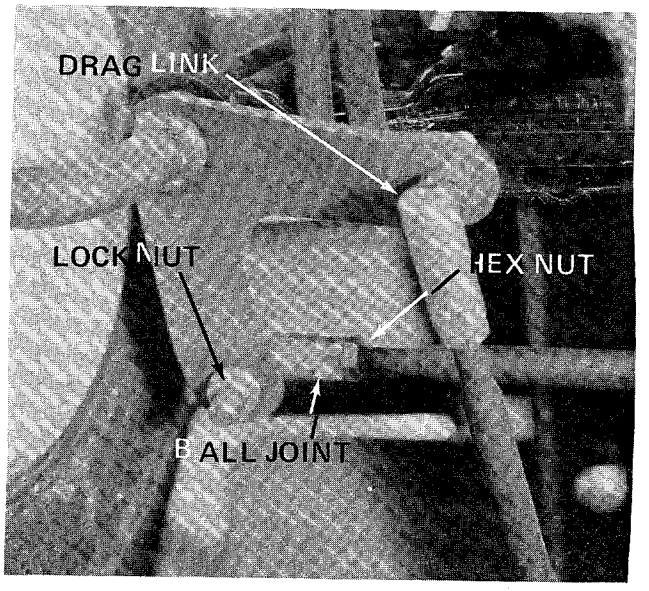


FIGURE 17.

BRAKE ADJUSTMENT

During normal operation of this machine, the brakes are subject to wear and will require periodic examination and adjustment.

⚠ CAUTION

Do not adjust the brake while the engine is running. Be sure to block the wheels of the tractor before making the brake adjustment.

1. Loosen the lock nut. See figure 18 .
2. Tighten the center bolt all the way in.
3. Unscrew the center bolt one complete turn.

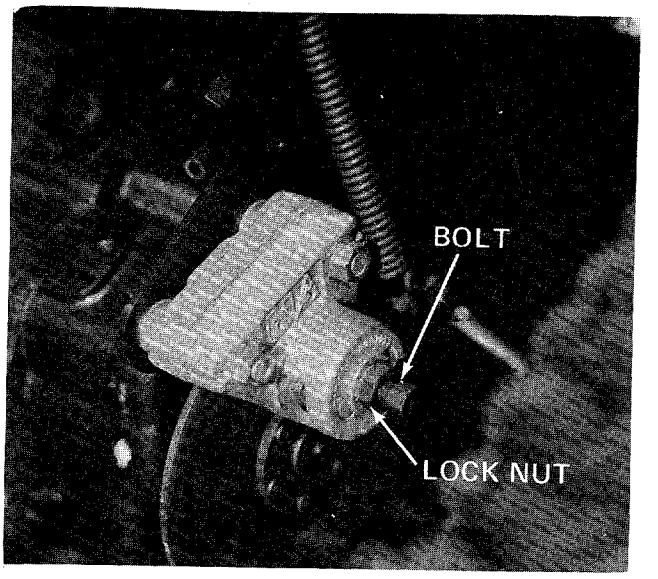


FIGURE 18.

4. Test the brakes and repeat step three if necessary.
5. Tighten the lock nut.

BELT REMOVAL AND REPLACEMENT

Changing the Front Drive Belt

1. Remove the cutting deck (if one is attached) and battery.
2. Raise and block the front wheels of the tractor so you can work under it.
3. Unscrew the belt guard release next to the engine pulley. See figure 19.

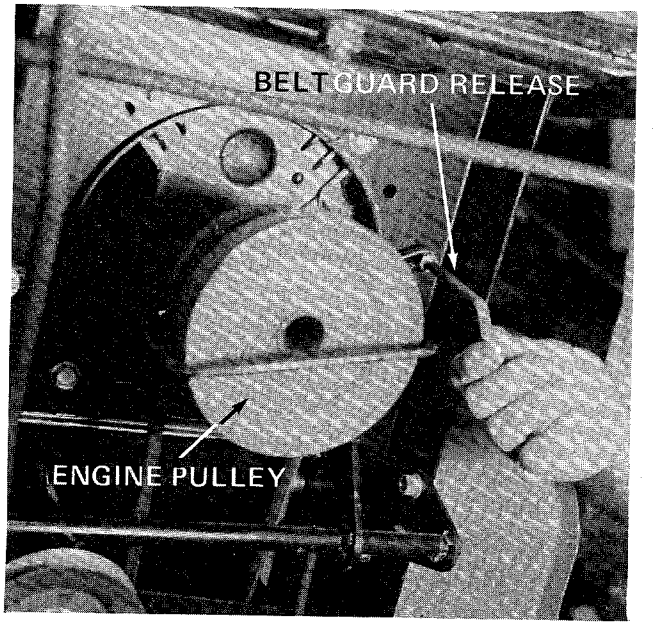


FIGURE 19.

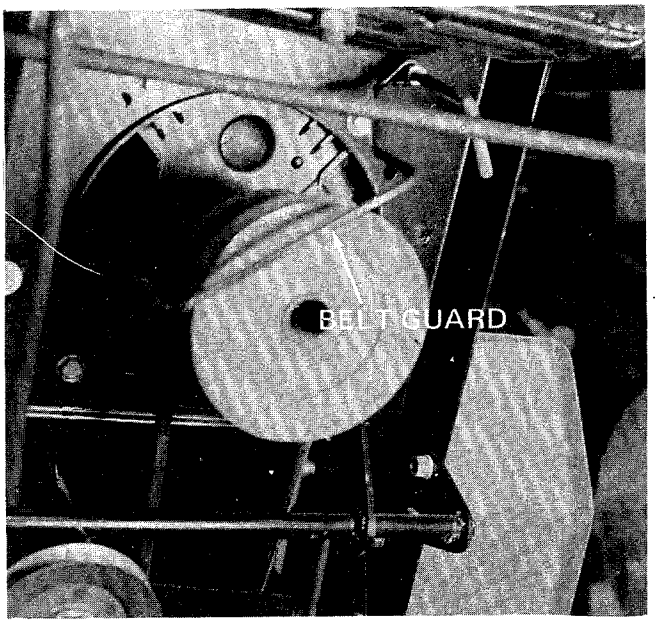


FIGURE 20.

4. Swing the belt guard forward towards the front of the tractor. See figure 20.

WARNING

Observe the way the belt is twisted. If the new belt is installed backwards, the tractor will run backwards.

5. Loosen the stop bolt behind the pulley assembly so the pulley assembly will pivot forward enough to remove the V-belt.
6. Using a bar or large screwdriver, pry the pulley assembly towards the front of the tractor and unhook the belt from the pulley. See figure 21.
7. Install the new belt by hooking it over the engine pulley and twisting the belt to the left as you attach it to the pulley.
8. Test the operation of the tractor to assure the belt has been installed correctly.

Removing the Rear (Clutch) Belt

1. Remove the cutting deck (if one is attached) and battery.
2. Raise and block the front wheels of the tractor so you can work under it.

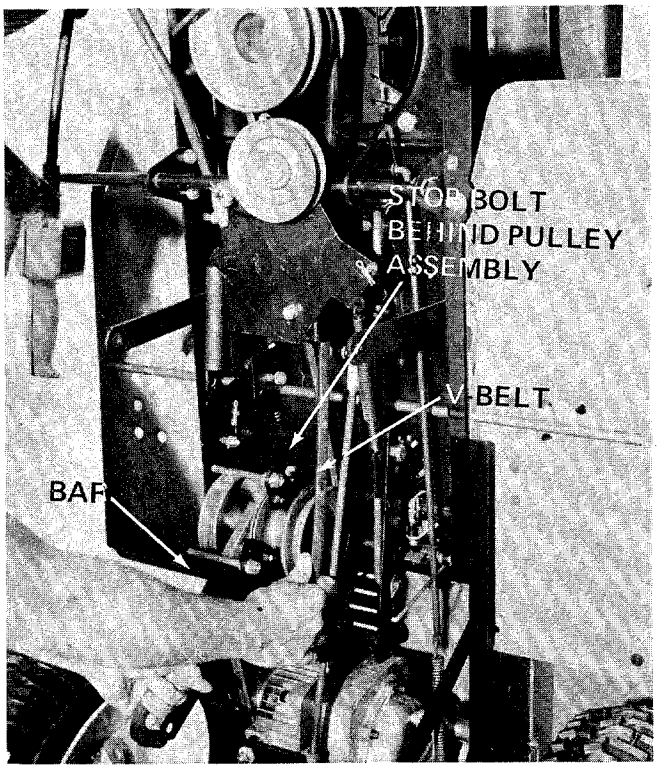


FIGURE 21.

3. Depress the clutch-brake pedal and set the parking brake.
4. Remove the two belt guard pins on the pulley assembly. See figure 22.

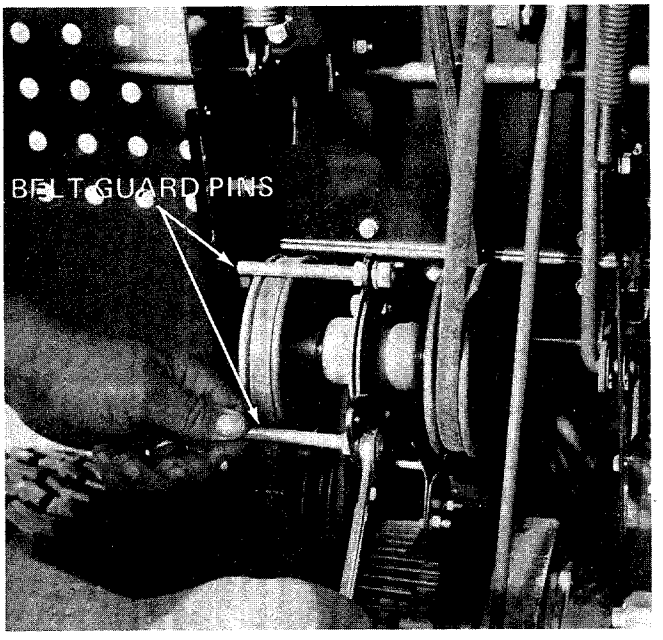


FIGURE 22.

5. Take off the idler assembly by removing the center bolt.

NOTE

Be sure the belt clip is reassembled the same way. See figure 23.

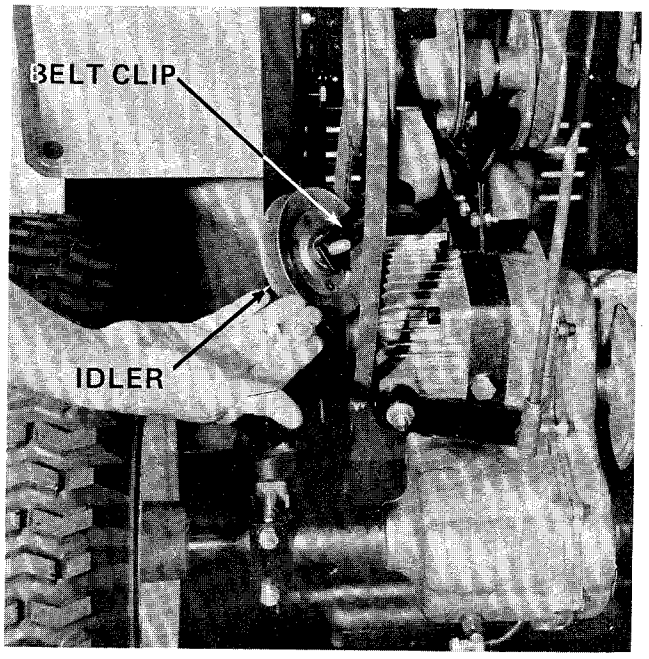


FIGURE 23.

6. Take off the round wire belt guard around the hydrostatic pulley by removing the two screws through the frame.
7. Loosen the frame bolt holding the rear axle bracket to the frame. See figure 24.
8. Pry the frame over about 1/4" and remove the V-belt.
9. Reassemble in reverse order with a new V-belt.

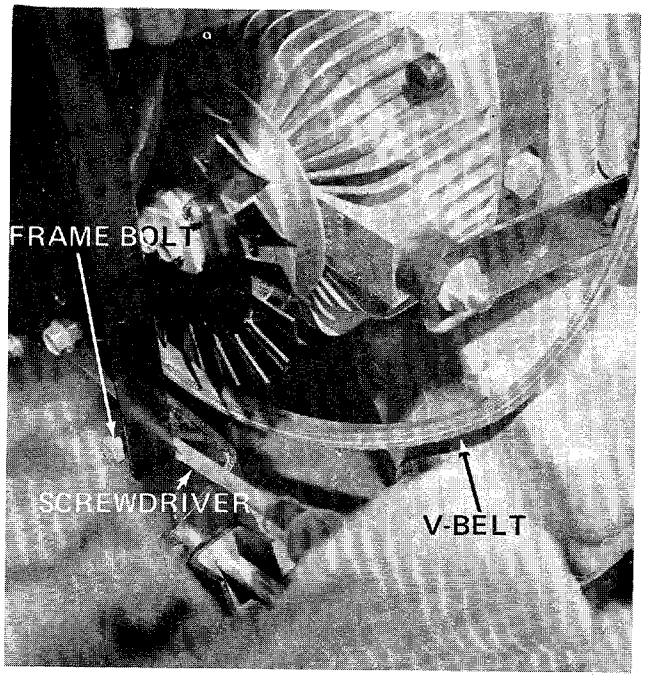


FIGURE 24.

AIR CLEANER

Under normal operating conditions, the air cleaner, located on top of the carburetor, must be serviced after every ten hours of use. Under extremely dusty operating conditions, the air cleaner must be serviced after every hour of operation. Refer to figure 25.

When assembling the air cleaner, make certain the lip of the foam element extends over edge of the air cleaner body. The foam element will form a protective seal.

Step 1. Remove two screws and lift off complete air cleaner assembly.

Step 2. Remove screen and spacers from foam element.

Step 3. Remove foam element from air cleaner body.

Step 4. a. Wash foam element in kerosene or liquid detergent and water to remove dirt.

b. Wrap foam in cloth and squeeze dry.

c. Saturate foam in SAE 30 engine oil, then squeeze out excess oil.

d. Assemble parts and fasten to carburetor with screw.

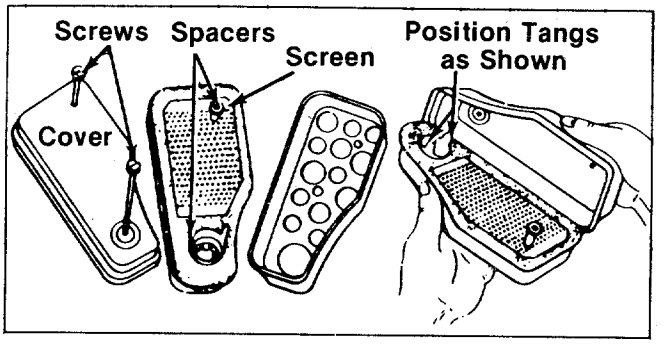


FIGURE 25. AIR CLEANER

CARBURETOR ADJUSTMENTS

WARNING

If any adjustments are made to the engine while the engine is running (e.g. carburetor), disengage all clutches and blades. Keep clear of all moving parts. Be careful of heated surfaces and muffler.

Minor carburetor adjustments may be required to compensate for differences in fuel, temperature, altitude and load.

To Adjust Carburetor—Turn needle valve clockwise until it just closes

CAUTION

Valve may be damaged by turning it in too far.

Now open needle valve 1½ turns counterclockwise. Close idle valve in the same manner and open 1½ turns. This initial adjustment will permit the engine to be started and warmed up prior to final adjustment. See figure 26.

To make the final adjustment, place governor control lever in "FAST" position. Turn needle valve in until engine slows (clockwise—lean mixture). Then turn it out past smooth operating point (rich mixture). Now turn needle valve to midpoint between rich and lean. Next, adjust idle RPM. Rotate throttle counterclockwise and hold against stop. Adjust idle speed adjusting screw to obtain 1750 RPM. Holding throttle against idle stop, turn idle valve in (lean) and out (rich). Set at midpoint between rich and lean. Re-check idle RPM. Release throttle. If engine will not accelerate properly, the carburetor should be re-adjusted, usually to a slightly richer mixture.

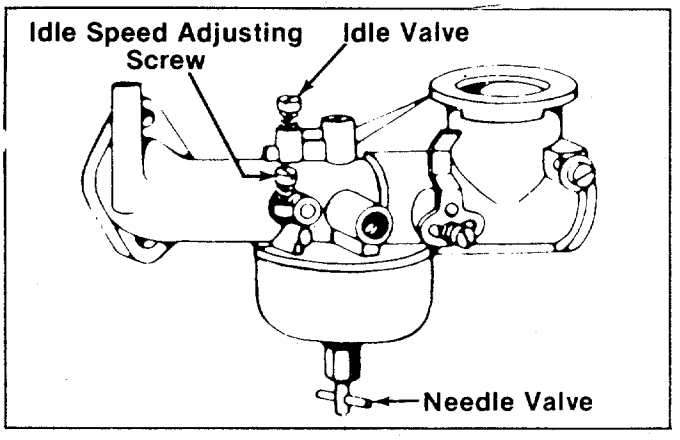


FIGURE 26.

CHOKE ADJUSTMENT

Place control lever on equipment in FAST (high speed) position. Loosen control casing clamp screw B. Move control casing A and wire until lever D touches choke operating link at C. Tighten casing clamp screw B. See figure 27.

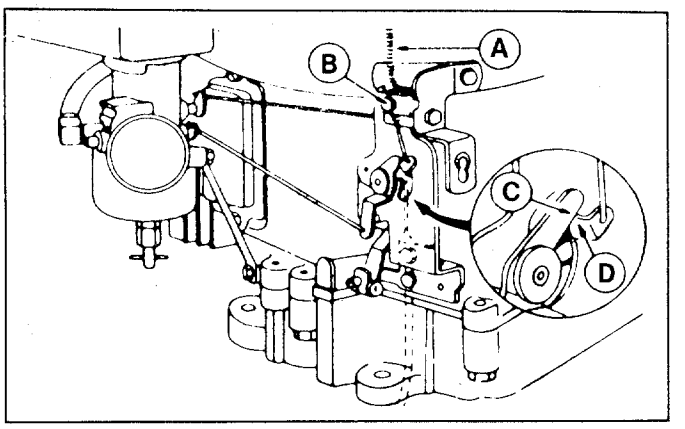


FIGURE 27. CHOKE ADJUSTMENT

OFF-SEASON STORAGE

If the machine is to be inoperative for a period longer than 30 days, the following procedures are recommended:

1. Working outdoors, drain all fuel from the fuel tank. Use a clean dry cloth to absorb the small amount of fuel remaining in the tank, then run the engine until all fuel in the carburetor is exhausted.

2. Drain all the oil from the crankcase (this should be done after the engine has been operated and is still warm) and refill the crankcase with clean new oil.

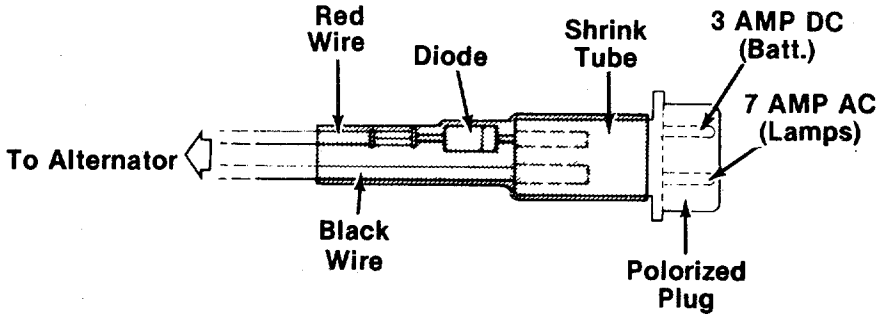
3. Disconnect the spark plug wires and remove the spark plugs from the cylinders. Pour about 2 or 3 tablespoons of engine oil into each cylinder, and then turn the engine over several times to spread out the oil. Replace the spark plugs but do not connect the wires.

4. Clean the engine and the entire tractor thoroughly.

5. Lubricate all lubrication points and wipe the entire machine with an oiled rag in order to protect the surfaces.

6. Battery storage. See page 12.

TROUBLE SHOOTING CHART FOR ELECTRIC START MODELS

TROUBLE	LOOK FOR	REMEDY
Engine will not crank	Battery installed incorrectly	The battery must be installed with the negative, identified at the terminal post by (Neg, N or -), grounded. The positive (Pos, P or +) attaches to the large cable from the solenoid. The small red wire from the fuse holder or circuit breaker is also attached to the positive terminal.
	Blow fuse or circuit breaker	Replace fuse with 7½ amp. fuse ¼ x 1¼" lg. Circuit breaker will reset itself when it cools off. Fuses or circuit breakers seldom open or fail without a reason. The problem must be corrected. Check for loose connections in the fuse holder. Replace fuse holder if necessary. A dead short may be in the cranking or charging circuit where the insulation may have rubbed through and exposed the bare wire. Replace the wire or repair with electrican's tape if the wire strands have not been damaged. Note: Look for a wire pinched between body panels, burned by the exhaust pipe or muffler or rubbed against a moving part.
	Battery is dead or weak	Use a hydrometer to check the condition of the battery. The Specific Gravity (s.g.) should be 1.265 at 80°F. (1.215 s.g. minimum needed for cranking engine). The reason for the battery failing must be determined. (1) Defective battery. Battery will not accept or hold a full charge. (2) Short circuit. Check for grounded wire. (3) Charging system not working, either engine alternator or trickle charger. **Trickle Charger.** Check with multimeter. Charger 725-0578—input 120 V A.C., no load output 13.5 V D.C., rated load current 1 amp. Charger 725-0507—input 120 V A.C., no load output 17.4 V D.C., rated load current 1/2 amp. **Alternator** (dual or single circuit) The charging system is an alternator located under the flywheel. It is unregulated and rated 3 amp. at 3600 r.p.m. A diode (rectifier) is located in the output lead just before the wire harness plug on the engine side.  The diode changes A.C. to D.C. to charge the battery. A bad diode can either fail to charge the battery or discharge the battery if the alternator is shorted as well as the diode. To test: (1) Disconnect charger lead from the battery (small red wire). (2) Connect 12 V small test lamp between the 3 amp. D.C. charge lead and the positive terminal of the battery. (3) With the engine off, the lamp should not light. If it does, the diode and possibly the alternator should be replaced. (4) Start the engine. The lamp should light. If it does not,the alternator (stator) or lead wire is bad and should be replaced.
	Mechanical failure. (Wires and switches)	The interlock system includes two mechanical activated switches which are wired in series in the circuit used to energize the starter solenoid. While testing the interlock system, you will make the mower temporarily unsafe by permitting the engine to be started with the blade and clutch engaged. WARNING: While testing, disengage the clutch, shut off the blade control, set the parking brake and place the gear shift lever in neutral. Attach a wire (minimum 18 gauge) to the positive terminal of the battery and touch the other end to the small terminal on the solenoid. **If the engine does not crank:** (1) There is a loose connection or poor ground. (2) The solenoid may be bad. The solenoid can be checked by using a heavy wire (#8 gauge minimum) and jumping between the two large terminals. If the engine cranks, the solenoid is bad. (3) If the engine does not crank when you jump the solenoid, have the starter motor tested by an authorized engine dealer. If the engine does crank, the problem is with one of the safety switches, ignition switch or the wire between the fuse holder (or circuit breaker) and the small terminal on the solenoid. Note: Look for a poor connection at the switches or a defective switch. Replace if necessary.
Engine cranks but will not start	Throttle or choke not in starting position	Check owner's guide for correct position for throttle control and choke (if separate control) for starting.

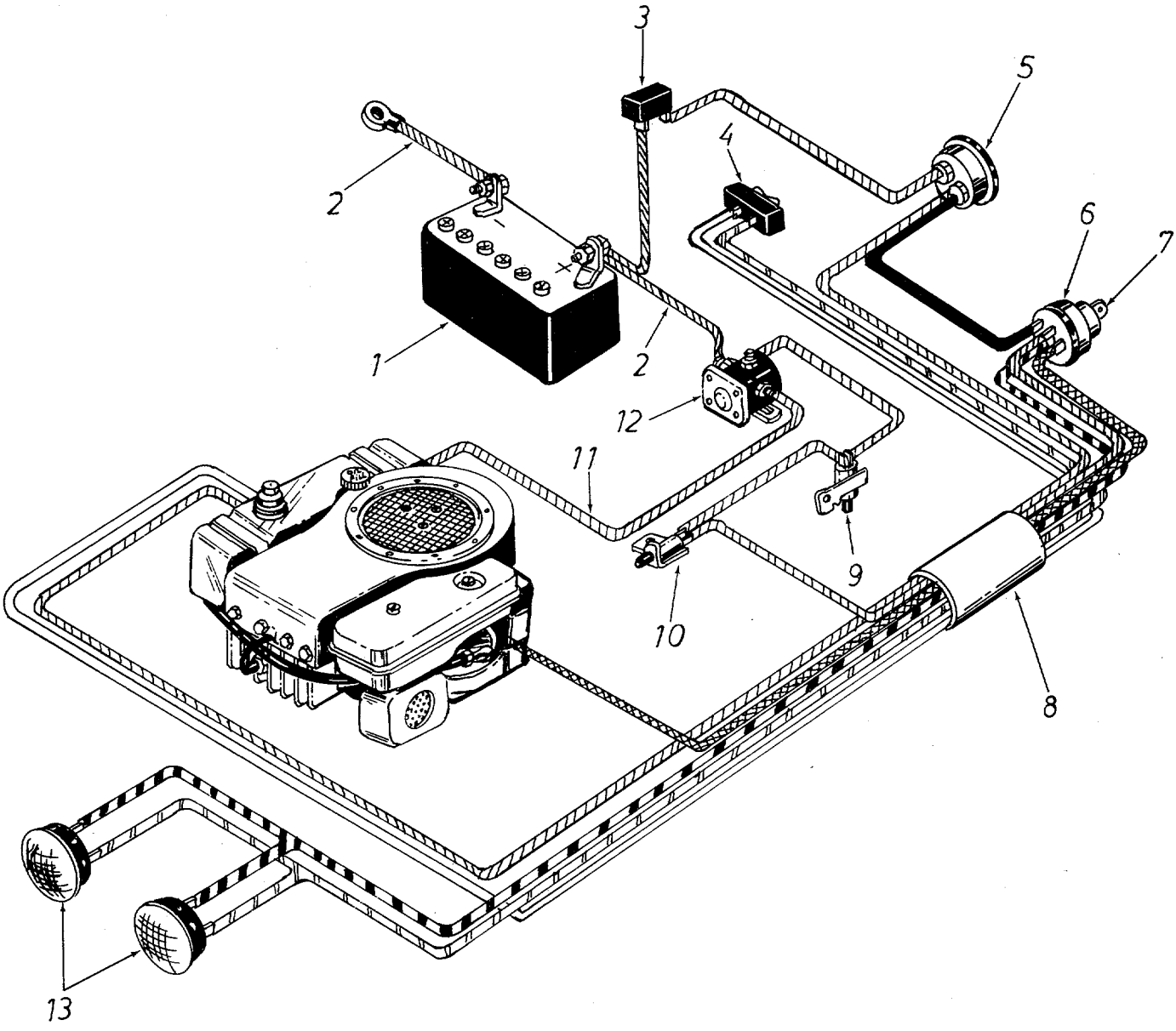
TROUBLE SHOOTING CHART FOR ELECTRIC START MODELS

TROUBLE	LOOK FOR	REMEDY
	No spark to spark plug	Spark plug lead disconnected. Connect lead. Hold spark plug lead away from engine block about 1/8". Crank engine. There should be a spark. If not, have engine repaired at authorized engine service dealer. Faulty spark plug. To test, remove spark plug. Attach spark plug lead to spark plug. Ground the spark plug body against the engine block. Crank the engine. The spark plug should fire at the electrode. Replace if it does not.
	No fuel to the carburetor	Gasoline tank empty. Fill. Fuel valve shut off. Open valve. Valve is located either at the bottom of the fuel tank or on the carburetor. Fuel line plugged. Remove and clean.
	Air filter dirty	If the air cleaner is dirty, the engine may not start. Clean or replace as recommended by the engine manufacturer.
Engine smokes	Engine loses crankcase vacuum	Dipstick not sealed or broken. Replace defective part. Engine breather defective. Replace.
Excessive vibration	Bent or damaged blade spindle	**Stop engine immediately.** Check all pulleys, blade spindles, blade adpaters, keys and bolts for tightness and damage. Tighten or replace any damaged parts.
	Bent blade	**Stop engine immediately.** Replace damaged blade. Only use original equipment blades.
Mower will not discharge grass or leaves uncut strips	Engine speed low Transmission selection Blades short or dull	Throttle must be set between 3/4 and full throttle. Use lower transmission gear. The slower your ground speed, the better the quality of cut. Sharpen or replace blades (uncut strip problem only).

HYDROSTATIC TRANSMISSION TROUBLE SHOOTING

No output torque (power) in either direction, cold start.	1. Recheck relief valve position, control linkage, input drive. 2. Oil level in reservoir low. 3. Broken control shaft dowel pin. Transmission must be repaired or replaced.
Loss of output torque, continous load.	1. Operating at conditions approaching hydraulic stall. The transmission fluid has exceeded 180°F. 2. Internal leakage due to wear. Transmission should be repaired or replaced. 3. Water in transmission fluid. Purge system of all fluid and replace with new transmission fluid. Replacement of the transmission is generally not necessary.
No output torque in one direction.	1. One of the directional valves is stuck. Transmission should be repaired or replaced. 2. Low oil level.
Riding mower cannot be pushed with engine off.	1. Relief valve control not set. 2. Relief valve travel not adjusted. 3. Motor piston or rotor seized. Transmission must be repaired or replaced.
No neutral.	1. Recheck linkage. Loose linkage creates an adjustment problem. Note: The hydraulic neutral band is very narrow. Deflection in the linkage may make it difficult to obtain neutral from both directions. It is recommended that neutral should be positive from forward drive.
Oil leakage at the control shaft seal.	1. Spillage when fluid has been added to the reservoir. 2. Spillage at the vent in the reservoir at operating temperatures due to cold level being too high or water in the fluid. Reduce fluid level or replace fluid in the event there is water in it (milky color). 3. Loose oil reservoir or cover. 4. Loose vent bolt. 5. Damaged control shaft seal. Transmission should be repaired.
Noisy Operation.	1. Operating at part throttle. Hydrostatic transmission is designed to operate with the engine running at full throttle. 2. Water in transmission fluid. Replace transmission fluid. 3. Air in transmission fluid. Bleed air from vent.
Output shaft rotates in the opposite direction.	1. The transmission body is 180° out of position. Transmission has to be removed and reassembled correctly.

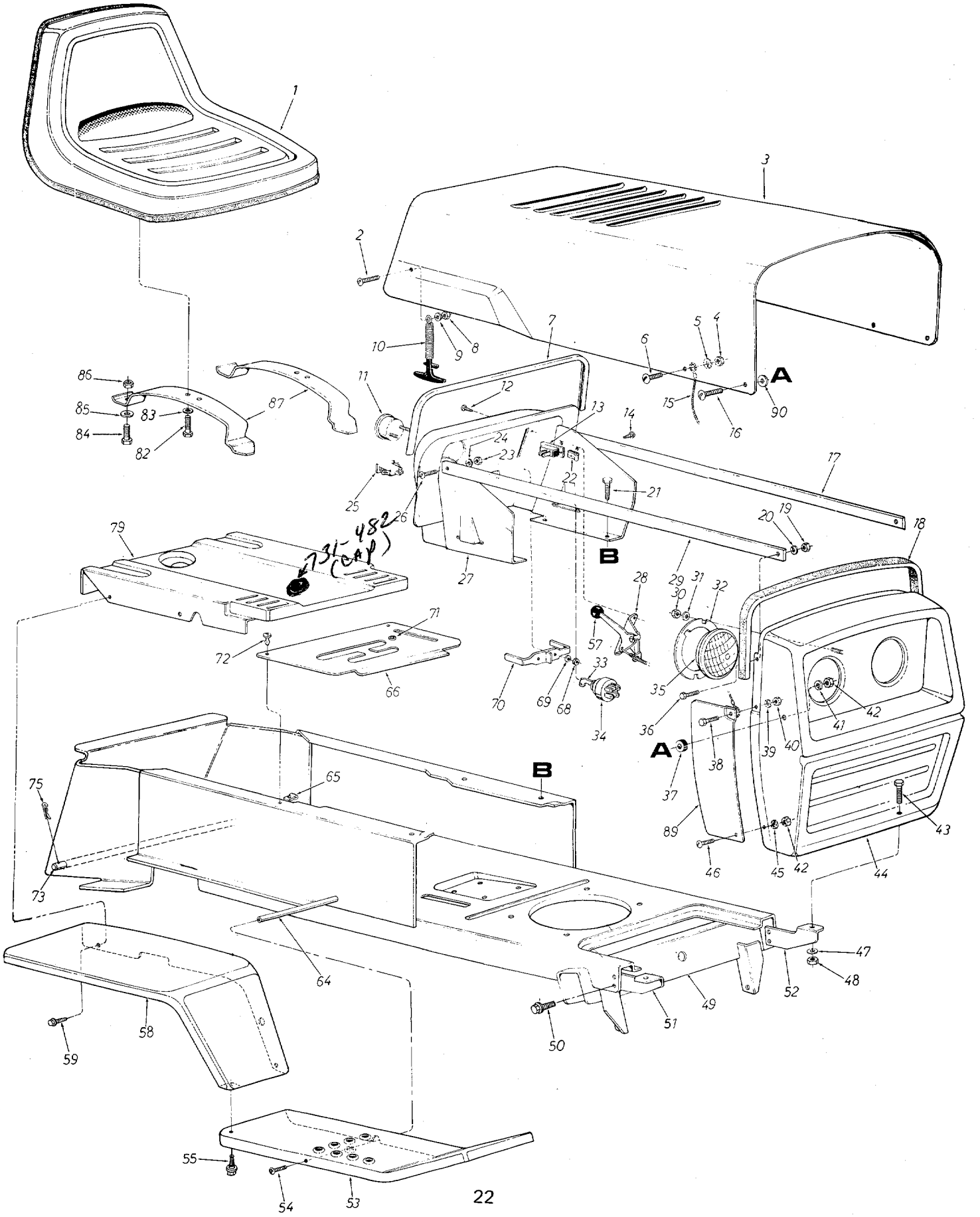
131-764A



PARTS LIST FOR ELECTRICAL SYSTEM 131-764A

Ref.. No.	PART No.	DESCRIPTION
1	725-0453	12V-Battery
2	725-0563	Electric Cable
3	725-0459	Circuit Breaker
4	725-0634	Light Switch
5	725-0119	Ammeter
6	725-0267	Ignition Switch
7	725-0201	Ignition Key
8	725-0667	Wire Harness
9	725-0465	Safety Switch
10	725-0268	Safety Switch
11	725-0561	Electric Cable
12	725-0530	Solenoid
13	725-0222	Headlight

131-764A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731-482 (CAP)
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131-764A

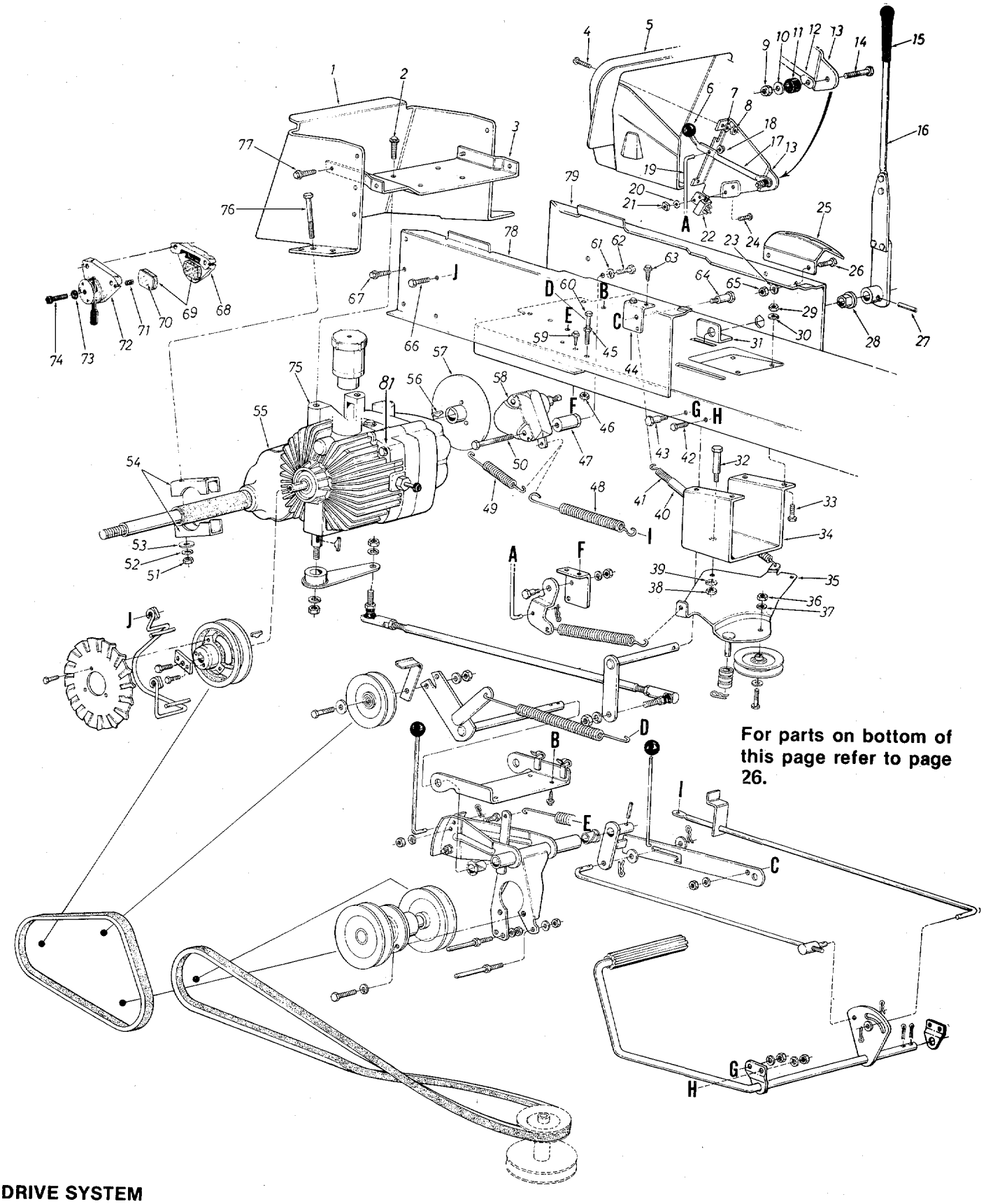
PARTS LIST FOR BODY PANELS MODEL 131-764A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	757-0298		Seat Assembly	
2	710-0286		Truss Mach. Scr. ¼-20 x .50" Lg.*	
3	13808	—462	Hood	
4	712-0287		Hex Nut ¼-20 Thd.*	
5	736-0329		L-Wash. ¼" Scr.*	
6	710-0286		Truss Mach. Scr. ¼-20 x .50" Lg.*	
7	731-0511		Vinyl Molding Strip	N
8	712-0287		Hex Nut ¼-20 Thd.*	
9	736-0329		L-Wash. ¼ Scr.*	
10	723-0296		Hood Latch Ass'y.	
11	725-0119		Ammeter	
12	710-0351		Hex Tap Scr. #10 x .50" Lg.*	
13	725-0459		Circuit Breaker 8 Amp.	
14	710-0351		Hex Tap Scr. #10 x .50" Lg.*	
15	727-0199		Hood Stop	
16	710-0255		Truss Mach. Scr. ¼-20 x .75" Lg.*	
17	749-0220		Grille Positioning Rod	
18	722-0137		PVC Foam Strip ½ x 1.00" x 12.5" Lg.	
19	712-0287		Hex Nut ¼-20 Thd.*	
20	736-0329		L-Wash. ¼" Scr.*	
21	710-0599		Hex Thd. Rolling Scr. ¼-20 x .50" Lg.	
22	712-0344		Speed Nut #10 Z	
23	712-0287		Hex Nut ¼-20 Thd.*	
24	736-0329		L-Wash. ¼" Scr.*	
25	725-0634		Light Switch	
26	710-0166		Hex Scr. ¼-20 x .62" Lg.*	
27	13843		Dash Panel Ass'y.	
28	746-0385		Throttle Control Comp.	
29	749-0220		Grille Positioning Rod	
30	712-0287		Hex Nut ¼-20 Thd.*	
31	736-0329		L-Wash. ¼ Scr.*	
32	09960		Head Lamp Retainer	
33	725-0201		Ignition Key	
34	725-0267		Ignition Switch	
35	725-0222		Head Lamp	
36	710-0258		Hex Scr. ¼-20 x .62" Lg.*	
37	735-0144		Rubber Wash. .50" I.D. x 1.00" O.D. x .25 Thk.	
38	710-0286		Truss Mach. Scr. ¼-20 x .50" Lg.*	
39	736-0329		L-Wash. ¼" Scr.*	
40	712-0287		Hex Nut ¼-20 Thd.*	
41	736-0329		L-Wash. ¼" Scr.*	
42	712-0287		Hex Nut ¼-20 Thd.*	
43	710-0118		Hex Scr. 5/16-18 x .75" Lg.*	
44	13801	—462	Grille Ass'y.	
45	736-0329		L-Wash. ¼" Scr.*	
46	710-0286		Truss Mach. Scr. ¼-20 x .50" Lg.*	
47	736-0119		L-Wash. 5/16" Scr.*	
48	712-0267		Hex Nut 5/16-18 Thd.*	
49	13820		Lower Frame Ass'y.	
50	710-0600		Hex Thd. Rolling Scr. 5/16-24 x .50" Lg.	
51	13862		Grille Mount Brkt.—R.H.	
52	13863		Grille Mount Brkt.—L.H.	
53	13828	—452	Running Board—R.H.	
	13827	—452	Running Board—L.H. (Not Shown)	
54	710-0323		Truss Mach. Scr. 5/16-18 x .75" Lg.*	
55	710-0600		Hex Thd. Rolling Scr. 5/16-24 x .50" Lg.	
57	720-0166		Knob (Throttle Control)	
58	13810	—462	Fender Ass'y.—R.H.	
	13809	—462	Fender Ass'y.—L.H. (Not Shown)	
59	710-0600		Hex Thd. Rolling Scr. 5/16-24 x .50" Lg.	
64	738-0435		Running Board Rod	
65	726-0156		Speed Nut	
66	13844	—452	Transmission Cover	
68	—		Part of Ref. No. 11	
69	—		Part of Ref. No. 11	
70	—		Part of Ref. No. 11	
71	731-0405		Snap Bushing	
72	710-0473		Truss Hd. Scr. ¼-20 x .75" Lg.	
73	738-0482		Hitch Rod	
75	714-0149		Internal Cotter Pin	
79	13814		Seat Plate	
82	710-0118		Hex Scr. 5/16-18 x .75" Lg.*	
83	736-0119		L-Wash. 5/16" Scr.*	
84	710-0689		Hex Scr. Nylon Scr. ½-13 x .75" Lg.	
85	736-0192		Fl-Wash. .50" I.D. x 1.00" O.D. x .090	
86	712-0206		Hex Nut ½-13 Thd.*	
87	13123		Seat Spring	
89	13864	—462	Grille Side Panel—R.H.	
	13235	—462	Grille Side Panel—L.H. (Not Shown)	
90	736-0173		Flat Wash. ¼" I.D.	

NOTE

This instruction manual covers various models and all specifications shown do not necessarily apply to your model. Specifications subject to change without notice or obligation.

131-764A



DRIVE SYSTEM

131-764A

PARTS LIST FOR DRIVE SYSTEM MODEL 131-764A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	13813		Hitch Plate	
2	710-0216		Hex Bolt 3/8-16 x .75" Lg.*	
3	13835		Rear Axle Support Brkt.	
4	710-0286		Truss Mach. Scr. ¼-20 x .50" Lg.*	
5	13843		Dash Panel Ass'y.	
6	720-0165		Knob—Blade Clutch	
7	736-0329		L-Wash. ¼" I.D.*	
8	712-0287		Hex Nut ¼-20 Thd.*	
9	712-0107		Hex Cent. L-Nut ¼-20 Thd.	
10	736-0173		Fl-Wash. .28" I.D. x .74" O.D. x .063	
11	735-0126		Rubber Wash. .33" I.D. x .87" O.D. x .30	
12	747-0157		Blade Clutch Lever	
13	13950		Deck Clutch Cont. Brkt.	
14	710-0106		Hex Bolt ¼-20 x 1.25" Lg.*	
15	720-0143		Grip	
16	14038		Control Arm Ass'y.	
17	747-0157		Blade Clutch Lever	
18	726-0106		Push Nut ¼" O.D. Rod	
19	747-0307		Deck Control Rod	
20	736-0147		Ext. L-Wash. #10 Scr.*	
21	712-0121		Hex Nut #10-24 Thd.*	
22	725-0465		Safety Switch	
23	736-0119		L-Wash. 5/16" I.D.*	
24	710-0473		Truss Mach. Scr. #10-24 x x .50" Lg.*	
25	14020		Speed Control Bracket	
26	710-0752		Hex Bolt 5/16-18 x .62" Lg.*	
27	715-0108		Spring Pin Spiral ¼" Dia. x 1.00" Lg.	
28	741-0225		Hex Flange Brg.	
29	712-0267		Hex Nut 5/16-18 Thd.*	
30	736-0119		L-Wash. 5/16" I.D.*	
31	14035		Speed Control Shaft Brkt.	
32	738-0155		Shld. Scr. .437" Dia. x .162" Lg.	
33	710-0376		Hex Bolt 5/16-18 x 1.00" Lg.*	
34	13826		Idler Support Brkt.	
35	13893		Idler Brkt. Ass'y.	
36	712-0798		Hex Nut 3/8-16 Thd.*	
37	736-0105		Belleville Washer 3/8" I.D.	
38	712-0267		Hex Nut 5/16-18 Thd.*	
39	736-0119		L-Wash. 5/16" I.D.*	
40	731-0483		Convoluted Conduit .50" I.D. x 4.0" Lg.	
41	732-0308		Ext. Spring .50" O.D. x 6.37" Lg.	
42	710-0201		Hex Bolt 3/8-16 x .62" Lg.*	
43	738-0234		Shld. Scr. .50" Dia. x .395" Lg. (3/8-16)	
44	13833		Parking Brake Cam Mtg. Brkt.	
45	712-0267		Hex Nut 5/16-18 Thd.*	
46	712-0267		Hex Nut 5/16-18 Thd.*	
47	748-0276		Spacer	
48	732-0260		Brake Tension Spring	
49	732-0157		Ext. Spring—Brake Return	
50	710-0937		Hex Bolt 3/8-16 x 2.50" Lg.*	
51	712-0798		Hex Nut 3/8-16 Thd.*	
52	736-0169		L-Wash. 3/8" I.D.*	
53	736-0258		Fl-Wash. .390" I.D. x 1.00" O.D. x .125" Thk.	
54	13892		Rear Axle Bracket	
55	—		Transaxle (See Breakdown Page 34)	
56	714-0137		Hi-Pro Key 3/16 x ¾" Lg.	
57	761-0142		Hub and Disc Ass'y. (For Brake)	
58	761-0179		Disc Brake Ass'y. Comp.	
59	710-0599		Hex Wash. Hd. Self-Tap Scr. ¼-20 x .50" Lg.	
60	710-0442		Hex Bolt 5/16-18 x 1.50" Lg.*	
61	736-0169		L-Wash. 3/8" I.D.*	
62	710-0216		Hex Bolt 3/8-16 x .75" Lg.*	
63	710-0599		Hex Wash. Hd. Self-Tap Scr. ¼-20 x .50" Lg.	
64	738-0155		Shld. Scr. .437" Dia. x .162" Lg.	
65	712-0267		Hex Nut 5/16-18 Thd.*	
66	710-0216		Hex Bolt 3/8-16 x .75" Lg.*	
67	710-0600		Hex Wash. Hd. Self-Tap Scr. 5/16-24 x .50" Lg.	
68	HU-16-13807		Anvil	
69	HU-24-13772		Lining	
70	HU-25-13808		Backing Plate	
71	HU-39-13774		Pin, Actuator	
72	HU-B003770069		Housing with Lever and Pin	
73	HU-37-13818		Nut	
74	HU-39-13775		Pin, Adjuster	
75	717-0426		Hydrostatic Pump Comp.	
76	710-0644		Hex Bolt 3/8-16 x 3.25" Lg.*	
77	710-0600		Hex Wash. Hd. Self-Tap Scr. 5/16-24 x .50" Lg.	
78	13848		Side Panel Upper Frame R.H.	
79	13847		Side Panel Upper Frame L.H.	
80	731-0493		Cap	
81	710-0492		Socket Hd. Bolt 3/8-16 x 2.75" Lg.	

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

(462—Red Flake)

When ordering parts if color is important, use the appropriate color code listed above. (e.g. 12369—462—Red Flake)

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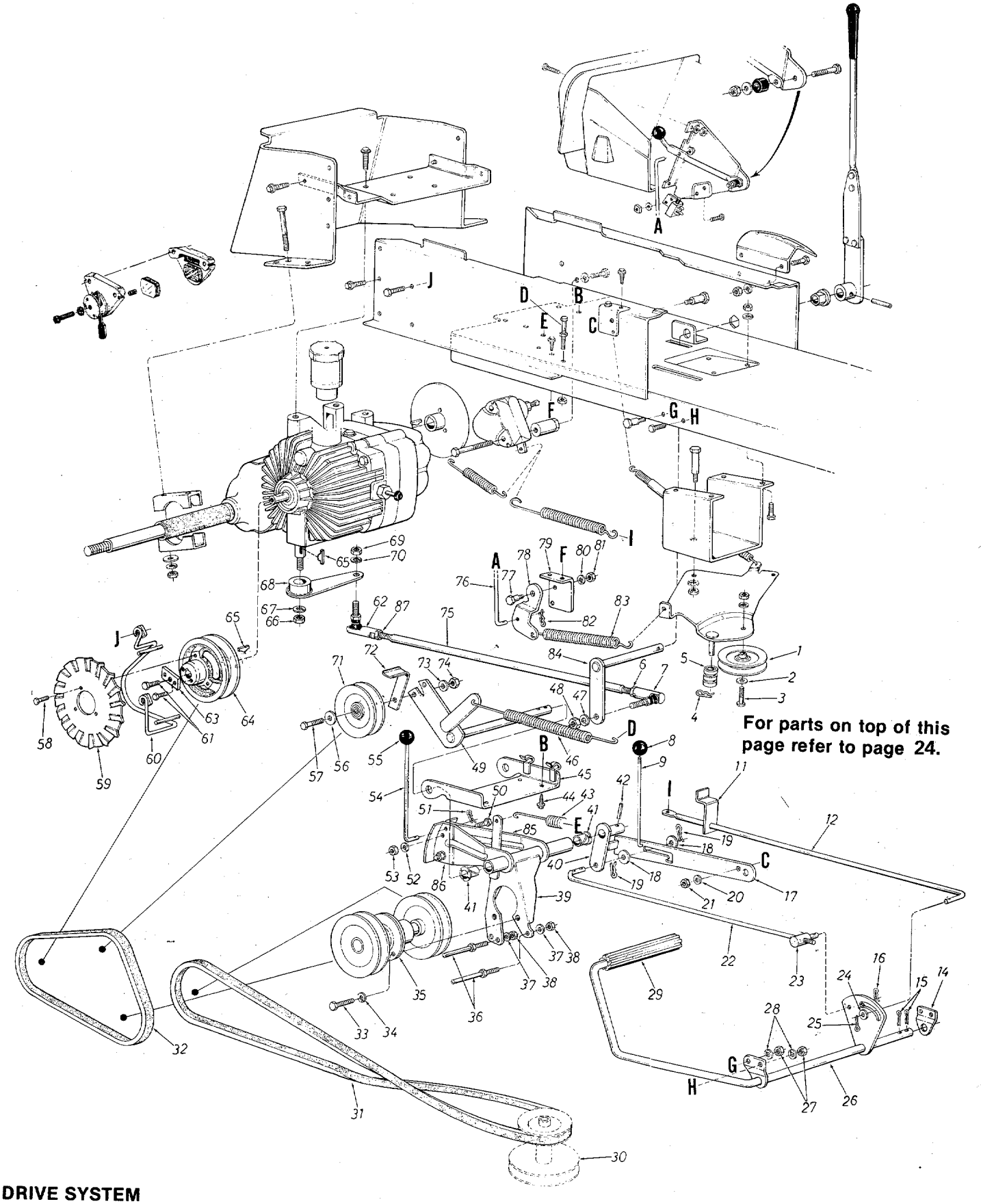

For parts on top of this page refer to page 24.

DRIVE SYSTEM

131-764A

PARTS LIST FOR DRIVE SYSTEM MODEL 131-764A

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	756-0293		4" Dia. "V"-Idler Pulley	
2	736-0300		Fl-Wash. 3/8" I.D.	
3	710-0342		Hex Bolt 3/8-16 x 1.25" Lg.*	
4	714-0104		Intern. Cotter Pin 5/16" Dia.	
5	748-0278		Spacer	
6	712-0711		Hex Jam L-Nut 3/8-24 Thd.	
7	723-0156		Ball Joint Ass'y. 3/8-24 Thd.	
8	720-0166		Ball Knob	
9	747-0300		Parking Brake Link	
11	14027		Brake Rod Hanger	
12	747-0304		Brake Rod	
14	13859		Clutch Rod Brg. Brkt.	
15	714-0474		Cotter Pin 1/8" Dia. x 1.00" Lg.*	
16	714-0145		Hairpin Cotter 3/8" Rod	
17	13832		Parking Brake Cam	
18	736-0101		Fl-Wash. .406 I.D. x 1.00" O.D. x .030	
19	714-0145		Hairpin Cotter 3/8" Rod	
20	736-0275		Fl-Wash. 5/16" Scr.*	
21	712-0267		Hex Nut 5/16-18 Thd.*	
22	747-0306		Brake Cam Rod	
23	711-0198		Pivot Bushing	
24	736-0275		Fl-Wash. .401" I.D. x .749" O.D. x .057" Thk.	
25	714-0115		Cotter Pin 1/8" Dia. x 1.00" Lg.	
26	13856		Clutch Brake Pedal Ass'y.	
27	736-0169		L-Wash. 3/8" I.D.*	
28	712-0375		Hex Cent. L-Nut 3/8-16 Thd.	
29	735-0196		Foot Pad	
30	756-0328		Two-Step Engine Pulley 4.75" and 5.56"	
31	754-0245		"V"-Belt ½" x 59" Lg.	
32	754-0255		"V"-Belt ½" x 37" Lg.	
33	710-0198		Hex Sems Bolt 5/16-18 x .75" Lg.*	
34	736-0119		L-Wash. 5/16" I.D.*	
35	756-0324		Jack Shaft Ass'y.	
36	711-0696		Stud 3/8-16 x 3.62" Lg.	
37	736-0169		L-Wash. 3/8" I.D.*	
38	712-0798		Hex Nut 3/8-16 Thd.*	
39	13823		Jack Shaft Mtg. Brkt. Ass'y.	
40	13871		Clutch Idler Horn Ass'y.	
41	741-0295		Nyliner 5/8" I.D. x .88" Lg.	
42	715-0108		Spring Pin Spiral ¼" Dia. x 1.00" Lg.	
43	732-0153		Ext. Spring (Jack Shaft)	
44	710-0599		Hex Wash. Hd. Self-Tap Scr. ¼-20 x .50" Lg.	
45	13822		Idler Mtg. Brkt.	
46	732-0384		Ext. Spring (Drive Idler)	
47	736-0169		L-Wash. 3/8" I.D.*	
48	712-0241		Hex Nut 3/8-24 Thd.*	
49	13815		Clutch Brkt. Ass'y.	
50	710-0289		Hex Bolt ¼-20 x .50" Lg.*	
51	714-0104		Internal Cotter Pin 5/16" Dia. Rod	
52	736-0329		L-Wash. ¼" I.D.*	
53	712-0287		Hex Nut ¼-20 Thd.*	
54	747-0312		Relief Valve Lockout Rod	
55	720-0166		Ball Knob	
56	736-0300		Fl-Wash. 3/8" I.D.	
57	710-0347		Hex Bolt 3/8-16 x 1.25" Lg.*	
58	710-0289		Hex Bolt ¼-20 x .50" Lg.*	
59	14019		Cooling Fan	
60	14016		Belt Guard Ass'y.	
61	710-0211		Hex Sems Bolt ¼-20 x .75" Lg.*	
62	723-0351		Ball Joint Ass'y. 3/8-24 L.H. Thd.	
63	04493		End Stop	
64	756-0338		Transaxle Pulley 4.25" Dia.	
65	714-0156		Hi-Pro Key 1/8" x 1/2" Dia.	
66	712-0798		Hex Nut 3/8-16 Thd.*	
67	736-0169		L-Wash. 3/8" I.D.*	
68	14022		Pintle Arm Ass'y.	
69	712-0241		Hex Nut 3/8-24 Thd.*	
70	736-0169		L-Wash. 3/8" I.D.*	
71	756-0293		4" "V"-Idler Pulley	
72	13819		Belt Guard (Clutch Idler)	
73	736-0169		L-Wash. 3/8" I.D.*	
74	712-0798		Hex Nut 3/8-16 Thd.*	
75	747-0321		Speed Control Rod	
76	747-0307		Deck Control Rod	
77	738-0155		Shld. Scr. .437" Dia. x .162" Lg. (5/16-18)	
78	13887		Deck Control Pivot Brkt.	
79	13833		Parking Brake Cam Mtg. Brkt.	
80	736-0119		L-Wash. 5/16" I.D.*	
81	712-0267		Hex Nut 5/16-18 Thd.*	
82	714-0104		Internal Cotter Pin 5/16" Rod	
83	732-0384		Extension Spring	
84	14034		Speed Control Shaft Ass'y.	
85	14025		Relief Valve Cam—L.H.	
86	14026		Relief Valve Cam—R.H.	
87	712-0312		Hex Jam L-Nut 3/8-24 L.H. Thd.	

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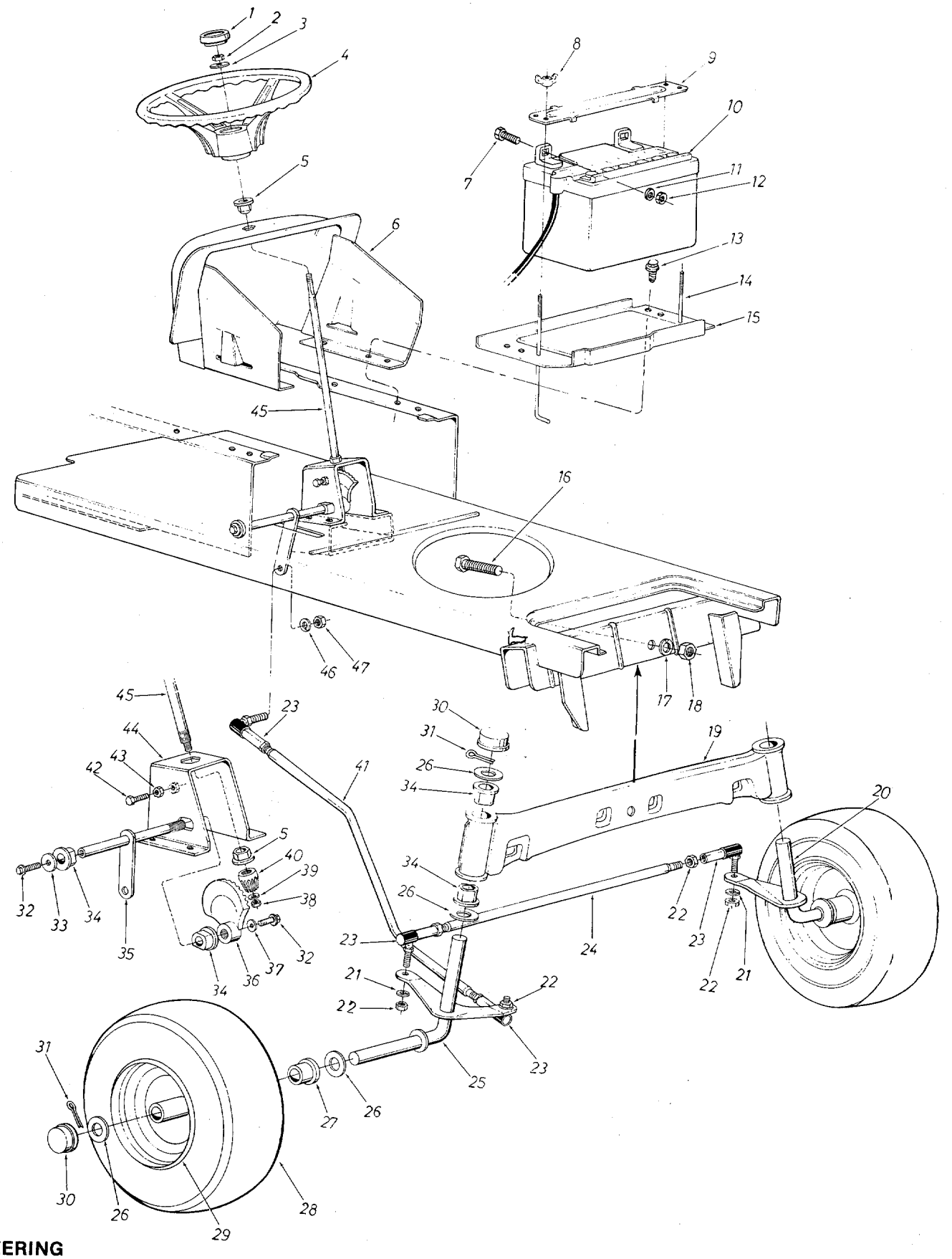

STEERING

131-764A

PARTS LIST FOR STEERING MODEL 131-764A

REF. No.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	731-0220		Steering Wheel Cap	
2	712-0158		Hex Cent. L-Nut 5/16-18 Thd.	
3	736-0275		Fl-Wash. 5/16" I.D. x 1.00" O.D. x .057	
4	731-0356		Steering Wheel	
5	741-0225		Plastic Hex Bearing 5/8" I.D.	
6	13843		Dash Panel Ass'y.	
7	710-0258		Hex Scr. ¼-20 x .62" Lg.	
8	712-0113		Wing Nut Plastic ¼-20 Thd.	
9	12614		Battery Hold Down	
10	725-0453		12-V Battery	
11	736-0329		L-Wash. ¼" Scr.*	
12	712-0287		Hex Nut ¼-20 Thd.*	
13	710-0599		Hex Thd. Rolling Scr. ¼-20 x .50" Lg.	
14	711-0222		Battery Hold Down Rod	
15	13379		Battery Plate	
16	710-0533		Hex Scr. 5/8-18 x 2.50" Lg.*	
17	736-0158		L-Wash. 5/8" Scr.*	
18	712-0923		Hex Cent. L-Nut 5/8-18 Thd.	
19	13865		Front Pivot Bar Ass'y.	
20	13839		Front Axle Ass'y.—L.H.	
21	736-0169		L-Wash. 3/8" Scr.*	
22	712-0241		Hex Nut 3/8-24 Thd.*	
23	723-0156		Ball Joint Ass'y.	
24	747-0301		Tie Rod	
25	13838		Front Axle Ass'y.—R.H.	
26	736-0316		Fl-Wash. .780 I.D. x 1.59 O.D.	
27	741-0293		Flange Bearing	
28	734-0960		Front Wheel Ass'y. Comp.	
29	734-0961		Front Wheel Rim Only	
	734-0498		Front Wheel Tire Only 15 x 6.00	
	734-0255		Air Valve	
30	731-0484		Dust Cover	
31	714-0121		Cotter Pin 5/32" Dia. x 1.00" Lg.*	
32	710-0180		Hex Scr. 3/8-24 x .75" Lg. Grade 5	
33	736-0133		Fl-Wash. 3/8 I.D. x 1.25 O.D. x .090	
34	741-0199		Flange Double "D" Brg. .753 I.D.	
35	12749		Steering Arm Shaft Ass'y.	
36	748-0236		Side Gear—Steering	
37	736-0105		Bell-Wash. 3/8" I.D.	
38	712-0237		Hex Cent. L-Nut 5/16-24 Thd.	
39	736-0264		Fl-Wash. 5/16" I.D. x .62 O.D. x .059	
40	748-0237		Pinion Gear—Steering	
41	747-0302		Drag Link	
42	710-0670		Hex Nylon Scr. 3/8-16 x 1.25" Lg.	
43	712-0798		Hex Nut 3/8-16 Thd.*	
44	12850		Steering Gear Sup. Ass'y.	
45	738-0317		Steering Shaft	
46	736-0169		L-Wash. 3/8" Scr.*	
47	712-0241		Hex Nut 3/8-24 Thd.*	

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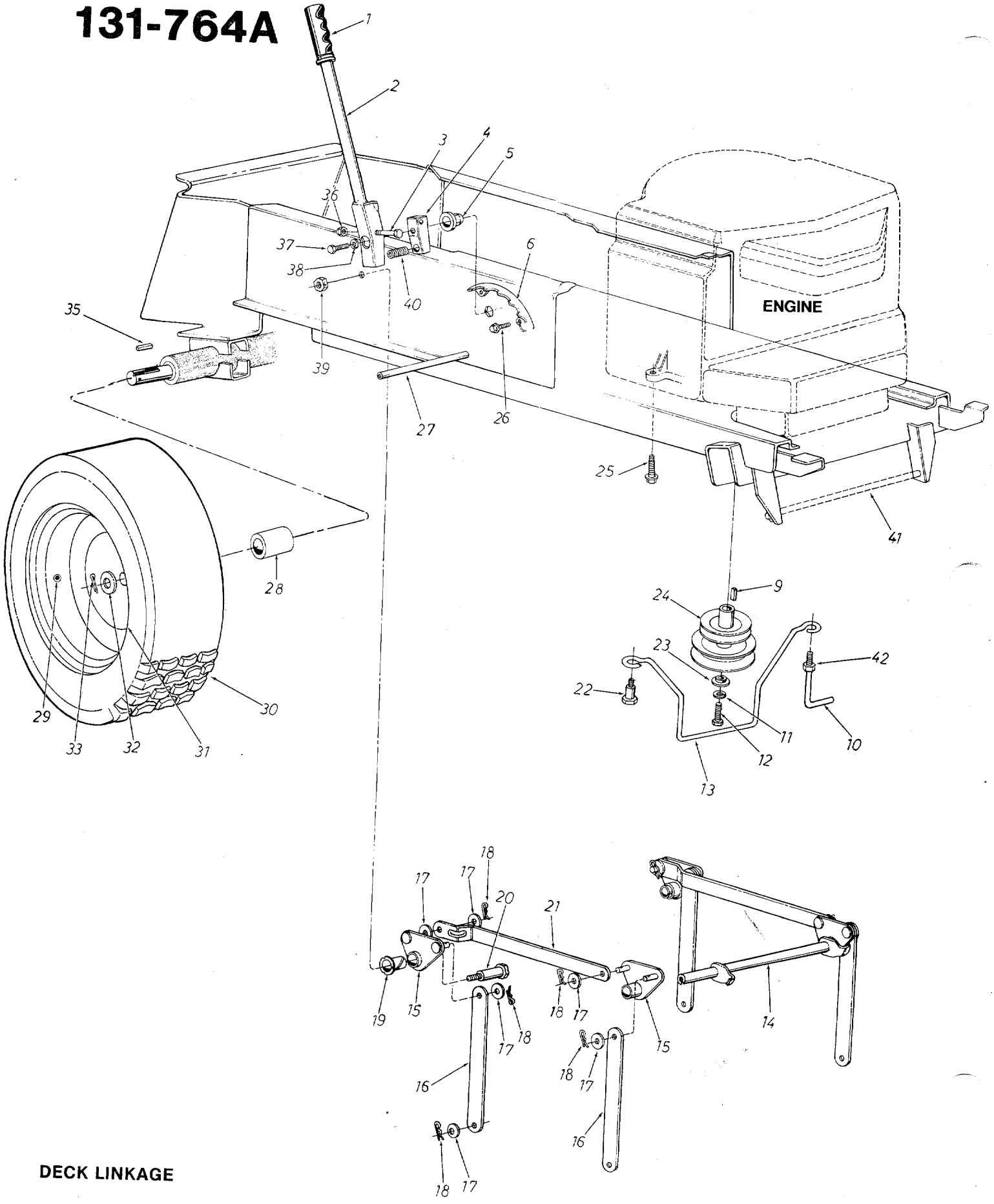

DECK LINKAGE

131-764A

PARTS LIST FOR DECK LINKAGE MODEL 131-764A

REF. No.	PART No.	COLOR CODE	DESCRIPTION	NEW PART
1	720-0157		Grip	
2	13884		Lift Handle Ass'y.	
3	710-0442		Hex Scr. 5/16-18 x 1.50" Lg.*	
4	748-0274		Lift Shaft Drive	
5	741-0225		Plastic Hex Brg. 5/8" I.D.	
6	13873		Index Brkt. Deck Lift	
9	714-0118		Sq. Key 1/4 x 1/4 x 1.50" Lg.	
10	747-0216		Belt Guard Lock Pin	
11	736-0171		L-Wash. 7/16" Scr.*	
12	710-0757		Hex Scr. 7/16-20 x 1.50" Lg.	
13	747-0299		Belt Guard	
14	13889		Lift Shaft Ass'y.	
15	13895		Lift Pivot Brkt. Ass'y.	
16	13791		Link (Deck)	
17	736-0192		Fl-Wash. 1/2" I.D. x 1.00" O.D. x .090	
18	714-0474		Cotter Pin 1/8" Dia. x .75" Lg.	
19	741-0295		Nyliner 5/8" I.D. x .88" Lg.	
20	738-0445		Shld. Scr. 5/8" Dia. .96" Lg. 3/8-16	
21	13790		Connecting Link	
22	738-0296		Shld. Scr. .437 Dia. x .268 Lg. 5/16-18	
23	736-0322		Fl.-Wash. 7/16" I.D. x 1.25" O.D. x .180	
24	756-0328		Two-Step Engine Pulley	
25	710-0502		Hex Wash. Hd. Scr. 3/8-16 x 1.25" Lg.	
26	710-0600		Hex Thd. Rolling Scr. 5/16-24 x .50" Lg.	
27	738-0435		Running Board Rod	
28	750-0490		Spacer 1" I.D. x 1.25" O.D. x 2.12" Lg.	N
29	734-0255		Air Valve	
30	734-1004		Rear Wheel Ass'y. Comp.	N
31	734-0878		Rear Wheel Rim Only	N
	734-0967		Rear Wheel Tire Only 22 x 7.50	
32	736-0259		Wash. 1" I.D. x 1.63" O.D.	
33	714-0142		Cotter Pin 3/16" Dia. x 1.50" Lg.	
35	714-0142		Sq. Key 1/4 x 1/4 x 3.00" Lg.	
36	712-0158		Hex Cent. L-Nut 5/16-18 Thd.	
37	710-0237		Hex Scr. 5/16-24 x .62" Lg.*	
38	736-0119		L-Wash. 5/16" Scr.*	
39	712-0181		Hex Top L-Nut 3/8-16 Thd.	
40	732-0369		Compression Spring	
41	738-0392		Deck Connecting Rod	
42	712-0123		Hex Nut 5/16-24 Thd.*	

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

The engine is not under warranty by the log splitter manufacturer. If repairs or service is needed on the engine, please contact your nearest authorized engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines – Gasoline."

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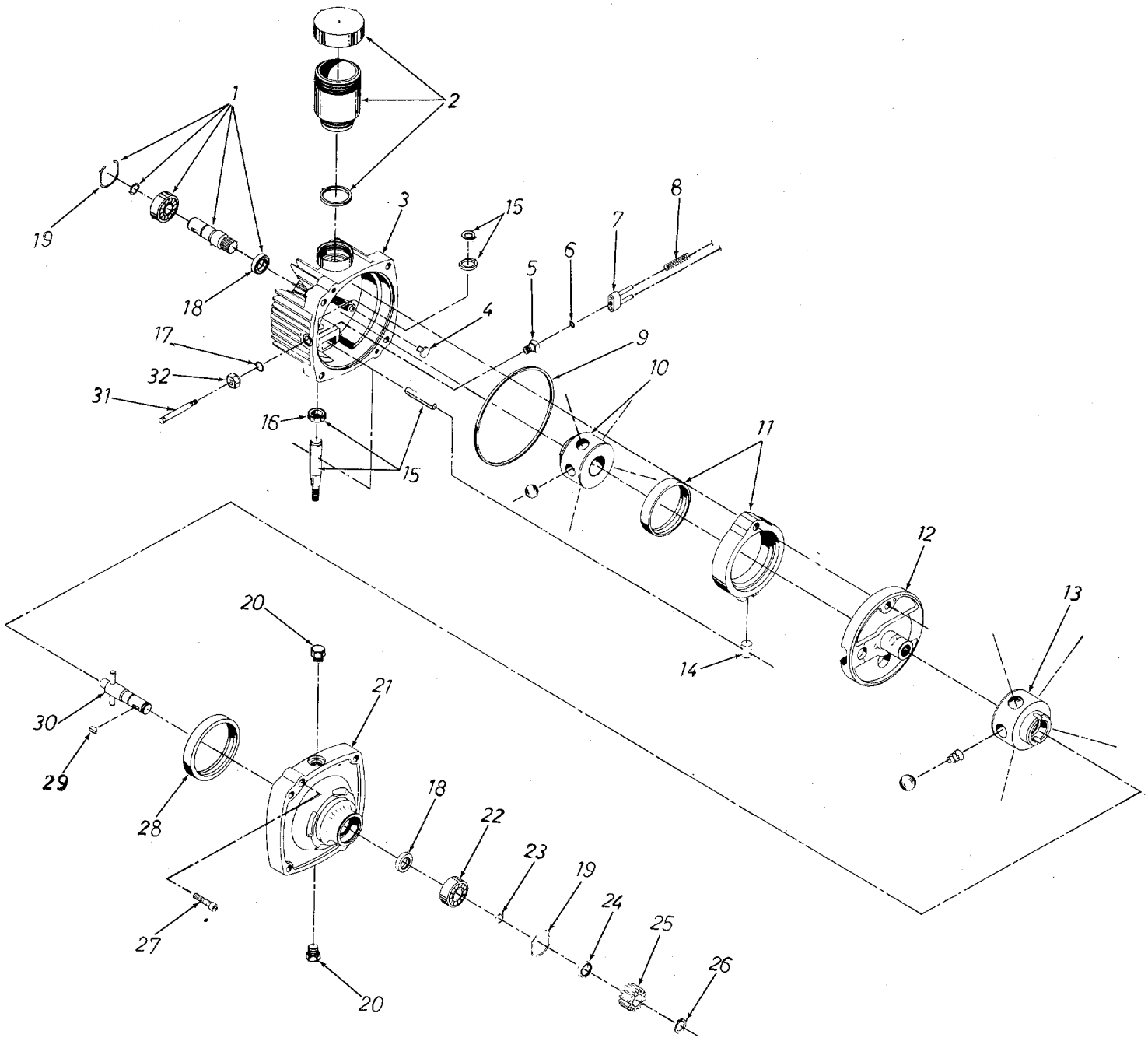
HYDROSTATIC TRANSMISSION M-7 (717-0426) ET-000700-002



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PARTS LIST FOR HYDROSTATIC TRANSMISSION M-7
(717-0426) ET-000700-002

REF. NO.	PART NO.	DESCRIPTION
1	ET-990067-000	Kit—Input Shaft
2	ET-990077-000	Kit—Reservoir
3	ET-990176-000	Kit—Cover
4	ET-101597-000	Button
5	ET-024234-000	O-Ring Fitting Guide Sub-assembly
6	ET-008761-010	O-Ring
7	ET-024166-000	Bracket—Pins Subassembly
8	ET-072149-000	Valve Spring
9	ET-008771-162	Square Cut Seal Ring
10	ET-022712-000	Pump Rotor—Ball Subassembly
11	ET-102449-000	Cam Ring Subassembly
12	ET-102532-000	Pintle Subassembly
13	ET-022711-000	Motor Rotor—Ball Subassembly
14	ET-095203-000	Cam Ring Insert
15	ET-990083-000	Kit—Control Shaft
16	ET-093895-000	Oil Seal
17	ET-008761-013	O-Ring .013
18	ET-093955-000	Oil Seal
19	ET-091231-000	Retaining Ring
20	ET-025090-006	O-Ring Plug Subassembly
21	ET-032278-000	Body
22	ET-090797-000	Ball Bearing (output)
23	ET-097121-000	Snap Ring
24	ET-095202-000	Spacer
25	ET-040511-000	Drive Gear (12 Teeth)
26	ET-096098-066	External Retaining Ring
27	ET-095912-125	Socket Hd. Scr. 5/16-18 x 1.25" Lg.
28	ET-040519-000	Motor Race
29	ET-009476-000	Woodruff Key #3
30	ET-022892-000	Output Shaft Subassembly
31	ET-062240-000	Dump Valve Shaft
32	ET-024235-000	Nut—Gasket Subassembly

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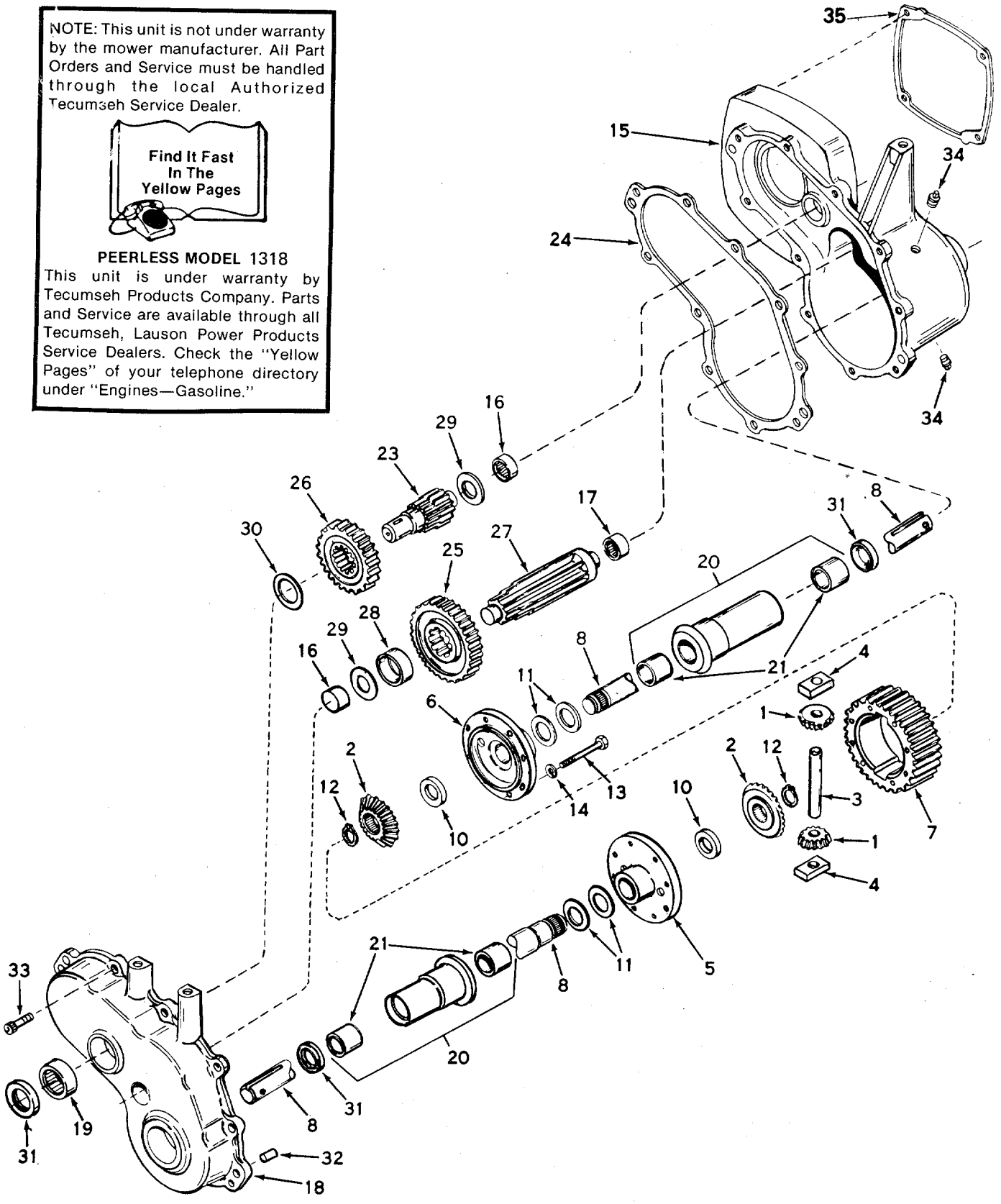
NOTE: This unit is not under warranty by the mower manufacturer. All Part Orders and Service must be handled through the local Authorized Tecumseh Service Dealer.

PEERLESS MODEL 1318

This unit is under warranty by Tecumseh Products Company. Parts and Service are available through all Tecumseh, Lauson Power Products Service Dealers. Check the "Yellow Pages" of your telephone directory under "Engines—Gasoline."



TRANSAXLE MODEL 1318

131-764A

PARTS LIST FOR TRANSAXLE
MODEL 1318

Ref. No.	PART No.	DESCRIPTION
1	PE-778014	Pinion, Bevel
2	PE-778039	Gear, Bevel
3	PE-786019	Pin, Drive
4	PE-786027	Block, Drive
5	PE-774028A	Carrier, Differential
6	PE-774029A	Carrier, Differential
7	PE-778033A	Gear, Ring
8	PE-774434	Axle (16-1/64" Long)
10	PE-780107	Washer
11	PE-780042	Washer, Thrust
12	PE-792018	Ring, Snap
13	PE-792020	Screw, Hex Hd., 1/4-20 x 2-1/4
14	PE-792006	Lock Washer, 1/4"
15	PE-770052	Case Assy. (Incl. Nos. 16 & 17)
16	PE-780013	Bearing, Needle
17	PE-780088	Bearing, Needle
18	PE-772063	Cover Assy. (Incl. Nos. 16 & 19)
19	PE-780089	Bearing, Needle
20	PE-782041	Housing Assy., Axle (Incl. 2 of No. 21)
21	PE-780054	Bushing
23	PE-776093	Shaft, Brake
24	PE-788044	Gasket, Case to cover
25	PE-778036	Gear, Output
26	PE-778037	Gear, Idler
27	PE-778041	Shaft, Output
28	PE-786017	Spacer
29	PE-780001	Washer
30	PE-780090	Washer
31	PE-788008	Seal, Oil
32	PE-786026	Pin, Dowel
33	PE-792046	Screw, Hex Hd., self-tapping, 1/4-20 x 1
34	PE-792010	Plug, Pipe.
35	PE-788046	Gasket

NOTE: This unit is not under warranty by the mower manufacturer. All Part Orders and Service must be handled through the local Authorized Tecumseh Service Dealer.

PEERLESS MODEL 1318

This unit is under warranty by Tecumseh Products Company. Parts and Service are available through all Tecumseh, Lauson Power Products Service Dealers. Check the "Yellow Pages" of your telephone directory under "Engines—Gasoline."

PARTS INFORMATION

POWER EQUIPMENT PARTS AND SERVICE

Parts and service for all MTD manufactured power equipment are available through the authorized service firms listed below. All orders should specify the model number of your unit, part numbers, description of parts and the quantity of each part required.

BRIGGS AND STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts and ser should be handled by your nearest authorized engine service f Check the yellow pages of your telephone directory under i... listing **Engines—Gasoline,** Briggs & Stratton or Tecumseh Lauson.

NOTE: If any parts are found to be missing or defective upon assembly of this unit, write to advise the factory so that immediate replacement can be made.

ALABAMA	**BIRMINGHAM**	
Auto Electric & Carburetor Co.	2625 4th Ave. S.	35233
ARKANSAS	**FORT SMITH**	
Mity Mite Motors, Inc.	4515 S. 16th St.	72901
	NORTH LITTLE ROCK	
Sutton's Lawn Mower Shop	Rt. 4, Box 368	72117
CALIFORNIA	**PORTERVILLE**	
Billious	75 North D Street	93257
	SAN FRANCISCO	
J.W. Jewett Co.	981 Folsom St.	94107
COLORADO	**DENVER**	
Spitzer Industrical Products Inc.	43 W. 9th Ave. Box 29114	80223
FLORIDA	**JACKSONVILLE**	
Radco Distributors	4909 Victor St. Box 5459	32207
	OPA LOCKA	
Small Eng. Dist.	2351 N.W. 147th St.	33054
GEORGIA	**EAST POINT**	
East Point Cycle & Key	2834 Church St.	30344
ILLINOIS	**LYONS**	
Keen Edge Co.	8615 Ogden Ave.	60534
INDIANA	**ELKHART**	
Parts & Sales Inc.	2101 Industrial Pkwy.	46514
IOWA	**DUBUQUE**	
Power Lawn & Garden Equip.	2551 J.F. Kennedy	52001
LOUISIANA	**NEW ORLEANS**	
Suhren Engine Co.	8330 Earhart Blvd.	70118
MARYLAND	**TAKOMA PARK**	
Center Supply Co.	6867 New Hampshire Ave.	20012
MASSACHUSETTS	**SPRINGFIELD**	
Morton B. Collins Co.	300 Birnie Ave.	01107
MICHIGAN	**LANSING**	
Lorenz Service Co.	2500 S. Pennsylvania	48910
	MOUNT CLEMENS	
Power Equipment Dist.	36463 South Gratiot	48043
MINNESOTA	**HOPKINS**	
Hance Distributing Inc.	420 Excelsior Ave. W.	55343
MISSISSIPPI	**BILOXI**	
Biloxi Sales & Service, Inc.	506 Caillavet St.	39533
MISSOURI	**KANSAS CITY**	
Automotive Equip. Service	3117 Holmes St.	64109
	ST. JOSEPH	
Ross-Frazier Supply Co.	8th and Monterey	64503
	ST. LOUIS	
Henzler, Inc.	2015 Lemay Ferry Road	63125
NEW JERSEY	**BELLMAWR**	
Lawnmower Parts Inc.	717 Creek Rd.	08030
NEW YORK	**CARTHAGE**	
Gamble Dist., Inc.	West End Ave.	13619
NORTH CAROLINA	**GOLDSBORO**	
Smith Hardware Co.	515 N. George St.	27530
	GREENSBORO	
Dixie Sales Company	335 N. Green	27402
OHIO	**CARROLL**	
Stebe's Mid-State Mower Supply	Box 366, 71 High St.	43112
	CLEVELAND	
Bleckrie, Inc.	7900 Lorain Ave.	44102
	WADSWORTH	
National Central	687 Seville Rd.	44281
	YOUNGSTOWN	
Burton Supply Co.	1301 Logan Ave. Box 929	44501
OKLAHOMA	**MUSKOGEE**	
Victory Motors, Inc.	605 S. Cherokee	74401
	OKLAHOMA CITY	
Forest Sales Inc.	6415 N. Olie	73116
OREGON	**PORTLAND**	
Kenton Supply Co.	8216 N. Denver Ave.	97217
PENNSYLVANIA	**CHESTER**	
Stull Equipment Corp.	742 W. Front St.	19013
	HARRISBURG	
EECO Inc.	4021 N. 6th St.	17110
	PHILADELPHIA	
Thompson Rubber Co.	5222-24 N. Fifth St.	19120
	PITTSBURGH	
Bluemont Co.	11125 Frankstown Rd.	15235
	PUNXSUTAWNEY	
Frank Roberts & Sons	R.D. 2	157
TENNESSEE	**KNOXVILLE**	
Master Repair Service	2000 Western Ave.	37921
	MEMPHIS	
American Sales & Service, Inc.	3035-43 Bellbrook	38116
TEXAS	**DALLAS**	
Marr Brothers, Inc.	423 E. Jefferson	75203
	FORT WORTH	
Woodson Sales Corp.	1702 N. Sylvania	76111
	HOUSTON	
Bullard Supply Co.	2409 Commerce St.	77003
	SAN ANTONIO	
Catto & Putty, Inc.	414 Live Oak	78298
UTAH	**SALT LAKE CITY**	
A-1 Engine & Mower Co.	437 E. 9th St.	84111
VERMONT	**BURLINGTON**	
Vermont Hdwe. Co. Inc.	180 Flynn Ave.	05401
VIRGINIA	**RICHMOND**	
RBI Corp.	963 Myers St.	23260
WASHINGTON	**SEATTLE**	
Bailey's Inc.	1414 14th Ave.	98102
WEST VIRGINIA	**CHARLESTON**	
Young's, Inc.	233 Virginia St., E.	25301
WISCONSIN	**MARSHFIELD**	
Power Pac	301 E. 29th St.	54449

WARRANTY PARTS AND SERVICE POLICY

The purpose of warranty is to protect the customer from defects in workmanship and materials, defects which are NOT detected at the time of manufacture. It does not provide for the unlimited and unrestricted replacement of parts. Use and maintenance are the responsibility of the customer. The manufacturer cannot assume responsibility for conditions over which it has no control. Simply put, if it's the manufacturer's fault, it's the manufacturer's responsibility; if it's the customer's fault, it's the customer's responsibility.

CLAIMS AGAINST THE MANUFACTURER'S WARRANTY INCLUDES:

1. **Replacement of Missing Parts** on new equipment.
2. **Replacement of Defective Parts** within the warranty period.
3. **Repair of Defects** within the warranty period.

All claims MUST be substantiated with the following information:

1. **Model Number** of unit involved.
2. **Date** unit was purchased or first put into service.
3. **Date of failure.**
4. **Nature of failure.**

MTD PRODUCTS • 5965 GRAFTON ROAD • P.O. BOX 36900 • CLEVELAND, OHIO 44136